NACOmatic

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GENERAL INFORMATION

This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the National Aeronautical Charting Office, FAA, Department of Transportation, Silver Spring, Maryland 20910. It is designed for use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data, navigational facilities and certain special notices and procedures.

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is applicable to civil users.

CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

CRITICAL information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call.

FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE: http://nfdc.faa.gov/portal/airportchanges.do

FAA, Aeronautical Information Services, ATO-R, Rm. 626

800 Independence Ave., SW

Washington, DC 20591

Telephone 1-866-295-8236

Fax 202-267-5322

Email 9-ATOR-HO-AIS-AIRPORTCHANGES@FAA.GOV

NOTICE: Changes must be received by the Aeronautical Information Services as soon as possible but not later than the "cut-off" dates listed below to assure publication on the desired effective date.

	Airport Information	Airspace Information*
Effective Date	Cut-off date	Cut-off date
17 Dec 09	4 Nov 09	15 Oct 09
11 Feb 10	30 Dec 09	10 Dec 09
8 Apr 10	24 Feb 10	4 Feb 10
3 Jun 10	21 Apr 10	1 Apr 10
29 Jul 10	16 Jun 10	27 May 10
23 Sep 10	11 Aug 10	22 Jul 10

^{*}Including changes to preferred routes and graphic depictions on charts.

FOR CHARTING ERRORS CONTACT:

ı

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Frequently asked questions (FAQs) are answered on our web site at www.naco.faa.gov. See the FAQs prior to contact via toll free number.

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Email 9-AMC-Chartsales@faa.gov

Telephone 1-800-638-8972

Fax 301-436-6829

or any authorized FAA Chart Agent

New or Changed Information—To alert users of new information or changes to information from the previous issue, a vertical line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.

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ABBREVIATIONS

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms may be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatical variations of the basic form. (Example-"req" may mean "request", "requesting", "requested", or "requests").

AAF	Army Air Field	byd	beyond
AB	Airbase	С	Commercial Circuit (Telephone)
abv	above	CGAF	Coast Guard Air Facility
ACC	Air Combat Command; Area Control	CGAS	Coast Guard Air Station
	Center	CIV	Civil
acft	aircraft	clsd	closed
ADCC	Air Defense Control Center	comd	command
AER	approach end rwy	CONUS	Continental United States
AFB	Air Force Base	CSTMS	Customs
AFHP	Air Force Heliport	ctc	contact
afld	airfield	ctl	control
AFOD	US Army Flight Operations Detachment	dalgt	daylight
AFRC	Armed Forces Reserve Center/Air Force	Dec	December
	Reserve Command	DIAP	DoD Instrument Approach Procedure
AFSS	Automated Flight Service Station	DoD	Department of Defense
AG	Agriculture	DSN	Defense Switching Network (Telephone)
A-GEAR	Arresting Gear	dsplcd	displaced
AGL	above ground level	durn	duration
AHP	Army heliport	eff	effective
ALS	Approach Light System	emerg	emergency
alt	altitude	EOR	End of Runway
AMC	Air Mobility Command	ETA	Estimated Time of Arrival
ANGS	Air National Guard Station	ETD	Estimated Time of Departure
apch	approach	exc	except
Apr	April	extd	extend
APU	Auxiliary Power Unit	FBO	fixed-base operator
ARB	Air Reserve Base	Feb	February
arpt	airport	fld	field
ARS	Air Reserve Station	FLIP	Flight Information Publication
AS	Air Station	flt	flight
ASDE-X	Airport Surface Detection Equipment—	flw	follow
	Model X	Fri	Friday
ASU	Aircraft Starting Unit	FSS	Flight Service Station
ATC	Air Traffic Control	GA	glide angle
Aug	August	GCA	Ground Controlled Approach
AUW	All Up Weight (gross weight)	GS	glide slope
avbl	available	haz	hazard
bcn	beacon	HQ	Headquarters
blo	below		

CONTINUED ON NEXT PAGE

CONTINUED FROM PRECEDING PAGE

hr hour non precision instrument ΙΔΡ Instrument Approach Procedure NS ABTMT Noise Abatement ICAC International Civil Aviation Organization NSTD nonstandard IFR Instrument Flight Rules ntc notice ILS Instrument Landing System obsn observation IM Inner Marker Oct October IMG Immigration OI F Outlying Field

incr increase onr operate, operator, operational

indet indefinite ons operations intensity OTS out of service ints invof in the vicinity of ovrn overrun

personnel and equipment working IMC Instrument Meteorological Conditions PAFW

lan nat pattern Jet Aircraft Starting Unit IASI p-line power line

JOAP Joint Oil Analysis Program **PMSV** Pilot-to-Metro Service IOSAC Joint Operational Support Airlift Center PΩI Petrol, Oils and Lubricants IRB Joint Reserve Base PPR prior permission required Jul July PRM Precision Runway Monitoring PTD

Jun June Pilot to Dispatcher

Κt Knots RAMCC Regional Air Movement Control Center

LAA Local Airport Advisory rea request LAHSO Land and Hold Short Operations rgt tfc right traffic RON Remain Overnight lhs nounds ldg landing rar require lighted rstd lgtd restricted

RSRS løts lights reduced same runway separation

LMM Compass locator at Middle Marker ILS rwv runway LOC Localizer Sat Saturday

LOM Compass locator at Outer Marker ILS SFLE Strategic Expeditionary Landing Field

limited Sen Itd September MACC Military Area Control Center SFA Single Frequency Approach

March efe Mar surface

SFRA MCAF Marine Corps Air Facility Special Flight Rules Area

SOAP MCALE Marine Corps Auxiliary Landing Field Spectrometric Oil Analysis Program

SOF Supervisor of Flying MCAS Marine Corps Air Station Marine Corps Base SPR MCB Seaplane Base

SP med medium sunrise SS METRO Pilot-to-Metro voice call sunset Mil military std standard min minute Sur Sunday MLS Microwave Landing System SVC service MM Middle Marker of ILS tfc traffic Mon Monday thld threshold Maintenance Period Thu Thursday tkf

MP MSI mean sea level take-off MSAW minimum safe altitude warning tmnrv temporary NAAS Naval Auxiliary Air Station tran transient NADC Naval Air Development Center Tue Tuesday NADER Naval Air Depot twr tower Naval Air Engineering Center NAEC twv taxiway

NAFS Naval Air Engineering Station UC **Under Construction** Naval Air Facility USA United States Army NAF Naval Air Logistics Control Office NALCO USAF United States Air Force USCG NALO Navy Air Logistics Office United States Coast Guard NALE Naval Auxiliary Landing Field USN United States Navy

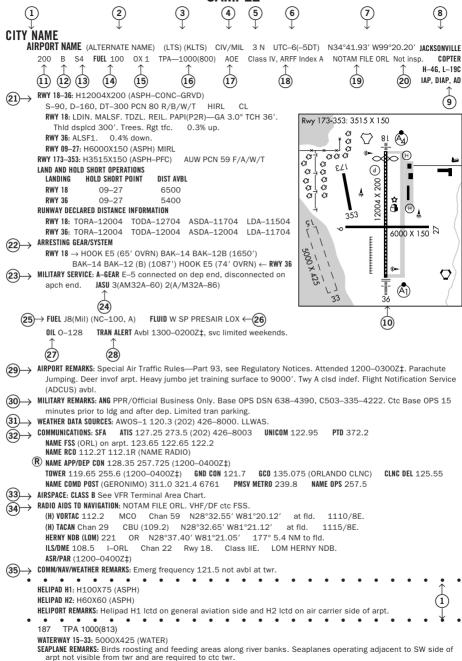
NAS Naval Air Station Defense Switching Network (telephone,

NAWC Naval Air Warfare Center formerly AUTOVON) NAWS Naval Air Weapons Station VFR Visual Flight Rules VIP night Very Important Person ngt

NOLF Naval Outlying Field VMC Visual Meteorological Conditions

Nov November Wed Wednesday wx weather

SAMPI F



All bearings and radials are magnetic unless otherwise specified.
All mileages are nautical unless otherwise noted.
All times are Coordinated Universal Time (UTC) except as noted.
All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.
The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

10 SKETC	H LEGEND
runways/landing areas	radio aids to navigation
Hard Surfaced	VORTAC
Metal Surface	VOR/DME NDB
Sod, Gravel, etc	TACAN TO NDB/DME
Light Plane,	MISCELLANEOUS AERONAUTICAL FEATURES
Closed	Airport Beacon
Helicopter Landings Area	Wind Cone
Displaced Threshold 0	Tetrahedron
Taxiway, Apron and Stopways	
ANGCELLANICOUG BACE AND CHITLIDAL	APPROACH LIGHTING SYSTEMS
MISCELLANEOUS BASE AND CULTURAL FEATURES	A dot "•" portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting
Buildings	system e.g. (A) Negative symbology, e.g., (A) w indicates Pilot Controlled Lighting (PCL).
Power Lines	Runway Centerline Lighting
Fence	Approach Lighting System ALSF-2 I
Towers	Approach Lighting System ALSF-1
Tanks	Short Approach Lighting System SALS/SALSF. Simplified Short Approach Lighting System (SSALR) with RAII
Oil Well	System (SSALR) with RAIL
Smoke Stack	and SSALF)
5812 Obstruction	As System (MALSR) and RAIL
Controlling Obstruction	Lighting System (ODALS)
G & G.	(‡) Air Force Overrun
Trees	Visual Approach Slope Indicator with Standard Threshold Clearance provided
Populated Places	Pulsating Visual Approach Slope Indicator (PVASI)
Cuts and Fills Fill HITTITI	Visual Approach Slope Indicator with a threshold crossing height to accomodate long bodied or jumbo aircraft
Cliffs and Depressions	Tri-color Visual Approach Slope Indicator (TRCV)
Ditch	(V3) Approach Path Alignment Panel (APAP)
Hill	P Precision Approach Path Indicator (PAPI)

LEGEND

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and official airport name and cross-referenced by associated city name. Navaids, flight service stations and remote communication outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well as under the airport with which they are associated.

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil pilots only in an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases, Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the sample on the preceding pages.

1 CITY/AIRPORT NAME

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

(2) ALTERNATE NAME

Alternate names, if any, will be shown in parentheses.

(3) LOCATION IDENTIFIER

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to differentiate them from the letter "O".

(4) OPERATING AGENCY

Α

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no military tenant.

MC

Marine Corps

AFRC Air Force Reserve Command N Navv US Air Force Naval Air Facility ΔF NAF ANG Air National Guard NAS Naval Air Station AR US Army Reserve NASA National Air and Space Administration

ARNG US Army National Guard P US Civil Airport Wherein Permit Covers
CG US Coast Guard Use by Transient Military Aircraft
CIV/MIL Joint Use Civil/Military PVT Private Use Only (Closed to the Public)

DND Department of National Defense Canada

US Army

5 AIRPORT LOCATION

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal points, e.g., 4 NE.

(6) TIME CONVERSION

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saving time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.

7 GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric center of all usable runway surfaces.

8 CHARTS

Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is located. Helicopter Chart locations will be indicated as COPTER. IFR Gulf of Mexico West and IFR Gulf of Mexico Central will be depicted as GOMW and GOMC.

(9) INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAMS

IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information Manual 5–4–5 Instrument Approach Procedure Charts for additional information. AD indicates an airport for which an airport diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city and airport name.

10 AIRPORT SKETCH

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport sketches will be added incrementally.

(11) ELEVATION

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be indicated as "00". When elevation is below sea level a minus "-" sign will precede the figure.

(12) ROTATING LIGHT BEACON

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

(13) SERVICING—CIVIL

S1:	Minor airframe repairs.	S5:	Major airframe repairs.
S2:	Minor airframe and minor powerplant repairs.	S6:	Minor airframe and major powerplant repairs.
S3:	Major airframe and minor powerplant repairs.	S7:	Major powerplant repairs.
S4:	Major airframe and major powerplant repairs.	S8:	Minor powerplant repairs.

(14) FUEL

CODE	FUEL	CODE	FUEL
80	Grade 80 gasoline (Red)	B+	Jet B, Wide-cut, turbine fuel with FS-II*, FP**
100	Grade 100 gasoline (Green)		minus 50° C.
100LL	100LL gasoline (low lead) (Blue)	J4 (JP4)	(JP-4 military specification) FP** minus
115	Grade 115 gasoline (115/145 military		58° C.
	specification) (Purple)	J5 (JP5)	(JP-5 military specification) Kerosene with
Α	Jet A, Kerosene, without FS-II*, FP** minus		FS-11, FP** minus 46°C.
	40° C.	J8 (JP8)	(JP-8 military specification) Jet A-1, Kerosene
A+	Jet A, Kerosene, with FS-II*, FP** minus		with FS-II*, FP** minus 47°C.
	40°C.	J8+100	(JP-8 military specification) Jet A-1, Kerosene
A1	Jet A-1, Kerosene, without FS-II*, FP**		with FS-II*, FP** minus 47°C, with-fuel
	minus 47°C.		additive package that improves thermo
A1+	Jet A-1, Kerosene with FS-II*, FP** minus		stability characteristics of JP-8.
	47° C.	J	(Jet Fuel Type Unknown)
В	Jet B, Wide-cut, turbine fuel without FS-II*,	MOGAS	Automobile gasoline which is to be used
	FP** minus 50° C.		as aircraft fuel.

^{*(}Fuel System Icing Inhibitor)

NOTE: Certa

Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS", however, the grade/type and other octane rating will not be published.

Data shown on fuel availability represents the most recent information the publisher has been able to acquire. Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

15 OXYGEN—CIVIL

OX 1 High Pressure OX 3 High Pressure—Replacement Bottles
OX 2 Low Pressure OX 4 Low Pressure—Replacement Bottles

16 TRAFFIC PATTERN ALTITUDE

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA—See Remarks" and detailed information shall be shown in the Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.

^{**(}Freeze Point)

17

7 airport of entry. Landing rights, and customs user fee airports

U.S. CUSTOMS USER FEE AIRPORT—Private Aircraft operators are frequently required to pay the costs associated with customs processing.

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required.

LRA—Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one hour advance notice of arrival is required.

NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or Mexico. Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and Agriculture Department requirements in the International Flight Information Manual for further details.)

US Customs Air and Sea Ports, Inspectors and Agents

Northeast Sector (New England and Atlantic States—ME to MD)	407-975-1740
Southeast Sector (Atlantic States—DC, WV, VA to FL)	407-975-1780
Central Sector (Interior of the US, including Gulf states—MS, AL, LA)	407-975-1760
Southwest East Sector (OK and eastern TX)	407-975-1840
Southwest West Sector (Western TX, NM and AZ)	407-975-1820
Pacific Sector (WA, OR, CA, HI and AK)	407-975-1800

(18) CERTIFICATED AIRPORT (14 CFR PART 139)

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV will always carry an Index A.

14 CFR PART 139 CERTIFICATED AIRPORTS AIRPORT CLASSIFICATIONS

Type of Air Carrier Operation	Class I	Class II	Class III	Class IV
Scheduled Air Carrier Aircraft with 31 or more passenger seats	Х			
Unscheduled Air Carrier Aircraft with 31 or more passengers seats	Х	Х		Х
Scheduled Air Carrier Aircraft with 10 to 30 passenger seats	Х	Х	Х	

14 CFR-PART 139 CERTIFICATED AIRPORTS

INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

Airport Index	Required No. Vehicles	Aircraft Length	Scheduled Departures	Agent + Water for Foam
А	1	<90′	≥1	500#DC or HALON 1211 or 450#DC + 100 gal H₂O
В	1 or 2	≥90′, <126′	≥5	Index A + 1500 gal H ₂ O
		≥126′, <159′	<5	
С	2 or 3	≥126′, <159′	≥5	Index A + 3000 gal H ₂ O
		≥159′, <200′	<5	
D	3	≥159′, <200′		Index A + 4000 gal H ₂ O
		>200′	<5	
E	3	≥200′	≥5	Index A + 6000 gal H ₂ O

> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H₂O-Water; DC-Dry Chemical.

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd.—indicates ARFF coverage may or may not be available, for information contact airport manager prior to flight.

19 NOTAM SERVICE

All public use landing areas are provided NOTAM "D" (distant dissemination) and NOTAM "L" (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. "NOTAM FILE IAD". See AIM, Basic Flight Information and

ATC Procedures for detailed description of NOTAM's. Current NOTAMs are available from Flight Service Stations at 1–800–WX–BRIEF. Real time Military NOTAMs are available using the DoD Internet NOTAM Distribution System (DINS) www.notams.jcs.mil.

20 FAA INSPECTION

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been provided by the owner or operator of the field.

21 RUNWAY DATA

Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown, e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

RUNWAY DESIGNATION

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel runways can be designated L (left)/R (right)/C (center). Runways may be designated as Ultralight or assault strips. Assault | strips are shown by magnetic bearing.

RUNWAY DIMENSIONS

Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but excluding those areas designed as overruns.

RUNWAY SURFACE AND LENGTH

Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part asphalt-concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is indicated in parentheses after runway length as follows:

(AFSC)—Aggregate friction seal coat	(GRVL)—Gravel, or cinders	(PSP)—Pierced steel plank
(ASPH)—Asphalt	(MATS)—Pierced steel planking,	(RFSC)—Rubberized friction seal coat
(CONC)—Concrete	landing mats, membranes	(TURF)—Turf
(DIRT)—Dirt	(PEM)—Part concrete, part asphalt	(TRTD)—Treated
(GRVD)—Grooved	(PFC)—Porous friction courses	(WC)—Wire combed

RUNWAY WEIGHT BEARING CAPACITY

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual, T=Triple and Q=Quadruple:

CURRENT	NEW	NEW DESCRIPTION
S	S	Single wheel type landing gear (DC3), (C47), (F15), etc.
D	D	Dual wheel type landing gear (BE1900), (B737), (A319), etc.
T	D	Dual wheel type landing gear (P3, C9).
ST	28	Two single wheels in tandem type landing gear (C130).
TRT	2T	Two triple wheels in tandem type landing gear (C17), etc.
DT	2D	Two dual wheels in tandem type landing gear (B707), etc.
TT	2D	Two dual wheels in tandem type landing gear (B757,
		KC135).
SBTT	2D/D1	Two dual wheels in tandem/dual wheel body gear type
		landing gear (KC10).
None	2D/2D1	Two dual wheels in tandem/two dual wheels in tandem body
		gear type landing gear (A340–600).
DDT	2D/2D2	Two dual wheels in tandem/two dual wheels in double
		tandem body gear type landing gear (B747, E4).
TTT	3D	Three dual wheels in tandem type landing gear (B777), etc.
TT	D2	Dual wheel gear two struts per side main gear type landing
		gear (B52).
TDT	C5	Complex dual wheel and quadruple wheel combination
		landing gear (C5).

AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration.

SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

PSI—Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway will support, e.g., (SWL 000/PSI 535).

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual, Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available for all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be shown as a five-part code (e.g. PCN 80 R/B/W/T). Details of the coded format are as follows:

- (1) The PCN NUMBER—The reported PCN indicates that an aircraft with an ACN equal or less than the reported PCN can operate on the pavement subject to any limitation on the tire pressure.
- (2) The type of pavement:
 - R Rigid
 - F Flexible
- (3) The pavement subgrade category:
 - A High
 - B Medium
 - C Low
 - D Ultra-low

- $\begin{tabular}{ll} (4) The maximum tire pressure authorized for the pavement: \\ \end{tabular}$
 - W High, no limit
 - X Medium, limited to 217 psi
 - Y Low, limited to 145 psi
- Z Very low, limited to 73 psi(5) Pavement evaluation method:
 - T Technical evaluation
 - U By experience of aircraft using the pavement

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published PCN or aircraft tire pressure exceeds the published limits.

RUNWAY LIGHTING

Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots, lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the runway or runway end they serve.

NSTD—Light system fails to meet FAA standards.

LIRL-Low Intensity Runway Lights.

MIRL—Medium Intensity Runway Lights.

HIRL—High Intensity Runway Lights.

RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL—Centerline Lights.

TDZL-Touchdown Zone Lights.

ODALS-Omni Directional Approach Lighting System.

AF OVRN-Air Force Overrun 1000' Standard

Approach Lighting System.

LDIN-Lead-In Lighting System.

MALS-Medium Intensity Approach Lighting System.

MALSF—Medium Intensity Approach Lighting System with Sequenced Flashing Lights.

MALSR—Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights.

SALS—Short Approach Lighting System.

SALSF—Short Approach Lighting System with Sequenced Flashing Lights.

SSALS—Simplified Short Approach Lighting System.

SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

SSALR—Simplified Short Approach Lighting System with Runway Alignment Indicator Lights.

ALSAF—High Intensity Approach Lighting System with Sequenced Flashing Lights.

ALSF1—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category I, Configuration.

ALSF2—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category II, Configuration.

SF-Sequenced Flashing Lights.

OLS-Optical Landing System.

WAVE-OFF.

NOTE: Civil ALSF2 may be operated as SSALR during favorable weather conditions. When runway edge lights are positioned more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on which they are tenants.

VISUAL GLIDESLOPE INDICATORS

APAP—A system of panels, which may or may not be lighted, us	ed for alignme	ent of approach path.
PNIL APAP on left side of runway	PNIR	APAP on right side of runway
PAPI—Precision Approach Path Indicator		
P2L 2-identical light units placed on left side of	P4L	4-identical light units placed on left side of
runway		runway
P2R 2-identical light units placed on right side of	P4R	4-identical light units placed on right side of
runway		runway
PVASI—Pulsating/steady burning visual approach slope indicate	or, normally a	single light unit projecting two colors.
PSIL PVASI on left side of runway	PSIR	PVASI on right side of runway
SAVASI—Simplified Abbreviated Visual Approach Slope Indicato	r	

S2R

2-box SAVASI on right side of runway

TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.

2-box SAVASI on left side of runway

S2L

TRIL	TRCV on left side of runway	TRIR	TRCV on right side of runway
VASI—Visua	l Approach Slope Indicator		
V2L	2-box VASI on left side of runway	V6L	6-box VASI on left side of runway
V2R	2-box VASI on right side of runway	V6R	6-box VASI on right side of runway
V4L	4-box VASI on left side of runway	V12	12-box VASI on both sides of runway
V4R	4-box VASI on right side of runway	V16	16-box VASI on both sides of runway

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., -GA 3.5° TCH 37'.

PILOT CONTROL OF AIRPORT LIGHTING

Key Mike	Function
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-Off)
3 times within 5 seconds	Lowest intensity available
	(Lower REIL or REIL-Off)

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07–25, MALSR Rwy 07, and VASI Rwy 07—122.8.

Where the airport is not served by an instrument approach procedure and/or has an independent type system of different specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, "Basic Flight Information and ATC Procedures," for detailed description of pilot control of airport lighting.

RUNWAY SLOPE

When available, runway slope data will only be provided for those airports with an approved FAA instrument approach procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up or down) on the runway end line, e.g., RWY 13: 0.3% up., RWY 21: Pole. Rgt tfc. 0.4% down.

RUNWAY END DATA

Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. "Rgt tfc"—Right traffic indicates right turns should be made on landing and takeoff for specified runway end.

LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold–short operations and markings.

RUNWAY DECLARED DISTANCE INFORMATION

TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane take-off

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided.

ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided. LDA—Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an aeroplane landing.

(22) ARRESTING GEAR/SYSTEMS

Arresting gear is shown as it is located on the runway. The a–gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A–Gear which has a bi–direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance notice may be required for rigging A–Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations.

Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:

BI-DIRECTIONAL CABLE (B)

12

<u>TYPE</u> <u>DESCRIPTION</u>

BAK-9 Rotary friction brake.

BAK-12A Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary

friction brake.

BAK-12B Extended BAK-12 with 1200 foot run, 1¼ inch Cable and 50,000 pounds weight setting. Rotary

friction brake.

E28 Rotary Hydraulic (Water Brake).
M21 Rotary Hydraulic (Water Brake) Mobile.

The following device is used in conjunction with some aircraft arresting systems:

BAK-14 A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

for engagement by the tower on request. (In addition to personnel reaction time, the system

requires up to five seconds to fully raise the cable.)

H A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

for engagement by the tower on request. (In addition to personnel reaction time, the system

requires up to one and one-half seconds to fully raise the cable.)

UNI-DIRECTIONAL CABLE

TYPE DESCRIPTION

MB60 Textile brake—an emergency one-time use, modular braking system employing the tearing of

specially woven textile straps to absorb the kinetic energy.

E5/E5-1/E5-3 Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100

HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet overrun that is not capable of withstanding the aircraft weight. These ratings are published under

Military Service.

FOREIGN CABLE

TYPE DESCRIPTION US EQUIVALENT

44B–3H Rotary Hydraulic) (Water Brake)

CHAG Chain E-5

UNI-DIRECTIONAL BARRIER

TYPE DESCRIPTION

MA-1A Web barrier between stanchions attached to a chain energy absorber.

BAK-15 Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction,

chain). Designed for wing engagement.

NOTE: Landing short of the runway threshold on a runway with a BAK–15 in the underrun is a significant hazard. The barrier in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway threshold can cause damage to the barrier and substantial damage to the aircraft.

OTHER

TYPE DESCRIPTION

EMAS Engineered Material Arresting System, located beyond the departure end of the runway, consisting of

high energy absorbing materials which will crush under the weight of an aircraft.

23 MILITARY SERVICE

Specific military services available at the airport are listed under this general heading. Remarks applicable to any military service are shown in the individual service listing.

24 JET AIRCRAFT STARTING UNITS (JASU)

The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

The following is a list of current JASU systems referenced in this publication:

USAF JASU (For variations in technical data, refer to T.O. 35–1–7.)

ELECTRICAL STARTING UNITS:

A/M32A-86 AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire

DC: 28v, 1500 amp, 72 kw (with TR pack)

MC-1A AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire

DC: 28v, 500 amp, 14 kw

MD-3 AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v. 1500 amp. 45 kw. split bus

MD-3A AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v, 1500 amp, 45 kw, split bus

MD-3M AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v, 500 amp, 15 kw

MD-4 AC: 120/208v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5

kva. 0.8 pf. 520 amp. 2 wire

AIR STARTING UNITS

AM32–95 150 + / - 5 lb/min (2055 + / - 68 cfm) at 51 + / - 2 psia AM32A–95 150 + / - 5 lb/min @ 49 + / - 2 psia (35 + / - 2 psig)

LASS 150 +/- 5 lb/min @ 49 +/- 2 psia

MA-1A 82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press

MC-1 15 cfm, 3500 psia MC-1A 15 cfm, 3500 psia MC-2A 15 cfm, 200 psia

MC-11 8,000 cu in cap, 4000 psig, 15 cfm

COMBINED AIR AND ELECTRICAL STARTING UNITS:

AGPU AC: 115/200v, 400 cycle, 3 phase, 30 kw gen

DC: 28v, 700 amp

AIR: 60 lb/min @ 40 psig @ sea level

AM32A-60* AIR: 120 + - 4 lb/min (1644 + - 55 cfm) at 49 + - 2 psia

AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva

DC: 28v, 500 amp, 15 kw

AM32A-60A AIR: 150 +/- 5 lb/min (2055 +/- 68 cfm at 51 +/- psia

AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw

AM32A-60B* AIR: 130 lb/min, 50 psia

AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire

DC: 28v, 200 amp, 5.6 kw

*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of electrical power available.

USN JASU

ELECTRICAL STARTING UNITS:

NC-8A/A1 DC: 500 amp constant, 750 amp intermittent, 28v;

AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz.

NC-10A/A1/B/C

DC: 750 amp constant, 1000 amp intermittent, 28v:

AC: 90 kva, 115/200v, 3 phase, 400 Hz.

AIR STARTING UNITS:

GTC-85/GTE-85 120 lbs/min @ 45 psi. MSU-200NAV/A/U47A-5 204 lbs/min @ 56 psia.

WELLS AIR START 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability.

SYSTEM

COMBINED AIR AND ELECTRICAL STARTING UNITS:

NCPP-105/RCPT 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC,

30 kva.

JASU (ARMY)

59B2–1B 28v, 7.5 kw, 280 amp.

OTHER JASU

ELECTRICAL STARTING UNITS (DND):

CE12 AC 115/200v, 140 kva, 400 Hz, 3 phase CE13 AC 115/200v, 60 kva, 400 Hz, 3 phase

CE14 AC/DC 1.15/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp
CE15 DC 22-35v, 500 amp continuous 1.100 amp intermittent
CE16 DC 22-35v, 500 amp continuous 1.100 amp intermittent soft start

AIR STARTING UNITS (DND):

CA2 ASA 45.5 psig, 116.4 lb/min COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)

CEA1 AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp

AIR 112.5 lb/min, 47 psig

ELECTRICAL STARTING UNITS (OTHER)

C-26 28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire

C-26-B, C-26-C 28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire

E3 DC 28v/10kw

AIR STARTING UNITS (OTHER):

A4 40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B)

MA-1 150 Air HP, 115 lb/min 50 psia MA-2 250 Air HP, 150 lb/min 75 psia

CARTRIDGE:

MXU-4A USAF



Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown. Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at www.desc.dla.mil/Static/ProductsAndServices.asp; click on the Commercial Airports button.

See legend item 14 for fuel code and description.

26 SUPPORTING FLUIDS AND SYSTEMS—MILITARY

ADI

Anti-Detonation Injection Fluid—Reciprocating Engine Aircraft.

W Water Thrust Augmentation—Jet Aircraft.

WAI Water-Alcohol Injection Type, Thrust Augmentation—Jet Aircraft.

SP Single Point Refueling.

PRESAIR Air Compressors rated 3,000 PSI or more.

De-Ice Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243).

OXYGEN:

LPOX Low pressure oxygen servicing.
HPOX High pressure oxygen servicing.
LHOX Low and high pressure oxygen servicing.

LOX Liquid oxygen servicing.

OXRB Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be

replenished only by replacement of cylinders.)

OX Indicates oxygen servicing when type of servicing is unknown.

NOTE: Combinations of above items is used to indicate complete oxygen servicing available;

LHOXRB Low and high pressure oxygen servicing and replacement bottles;

LPOXRB Low pressure oxygen replacement bottles only, etc.

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with medical oxygen.

NITROGEN:

CODE

LPNIT — Low pressure nitrogen servicing.
HPNIT — High pressure nitrogen servicing.

LHNIT — Low and high pressure nitrogen servicing.

GRADE TYPE

27 OIL—MILITARY

US AVIATION OILS (MIL SPECS):

OODL	anne, in E
0-113	1065, Reciprocating Engine Oil (MIL-L-6082)
0-117	1100, Reciprocating Engine Oil (MIL-L-6082)
0-117+	1100, 0-117 plus cyclohexanone (MIL-L-6082)
0-123	1065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III)
0-128	1100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II)
0-132	1005, Jet Engine Oil (MIL-L-6081)
0-133	1010, Jet Engine Oil (MIL-L-6081)
0-147	None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic
0-148	None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil
0-149	None, Aircraft Turbine Engine Synthetic, 7.5c St
0-155	None, MIL-L-6086C, Aircraft, Medium Grade
0-156	None MIL -I -23699 (Synthetic Base) Turboprop and Turboshaft Engine

O-156 None, MIL-L-23699 (Synthetic Base), Turboprop and Turboshaft Engines

JOAP/SOAP Joint Oil Analysis Program, JOAP support is furnished during normal duty hours, or

Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request. (JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service

supported program.)

28 TRANSIENT ALERT (TRAN ALERT)—MILITARY

Tran Alert service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military

aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been accomplished.

29 AIRPORT REMARKS

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum services (e.g., repairs, fuel, transportation).

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft. Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication.

Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this publication for additional Information.

Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

30 MILITARY REMARKS

Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military.

Type of restrictions:

CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area.

OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircraws and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received from the airfield manager.

AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service indicated.

PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11–204, AR 95–27, OPNAVINST 3710.7.

Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on aboard are designated Code 6 or higher as explained in AFJMAN 11–213, AR 95–11, OPNAVINST 3722–8J. Official Business Only or PPR do not preclude the use of the airport as an alternate for IFR flights.

31 WEATHER DATA SOURCES

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation.

ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity, and freezing rain occurrence (future enhancement).

AWOS-Automated Weather Observing System

AWOS-A—reports altimeter setting (all other information is advisory only).

AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2-reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data.

See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.

HIWAS—See RADIO AIDS TO NAVIGATION

LAWRS—Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision, temperature and dewpoint (in most cases), surface wind, altimeter and pertinent remarks.

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers. SAWRS—identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current weather information.

SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone.

TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP—indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.



Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows:

Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS) and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will be shown as CTAF/UNICOM 122.8.

The FSS telephone nationwide is toll free 1–800–WX–BRIEF (1–800–992–7433). When the FSS is located on the field it will be indicated as "on arpt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available.

FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation.

(See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by calling the telephone numbers listed.

Remote Communications Outlet (RCO)—An unmanned air/ground communications facility that is remotely controlled and provides UHF or VHF communications capability to extend the service range of an FSS.

Civil Communications Frequencies-Civil communications frequencies used in the FSS air/ground system are operated on 122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

- a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.
- b. 122.2 is assigned as a common enroute frequency.
- c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may provide airport advisories on the tower frequency when tower is closed.
- d. 122.1 is the primary receive-only frequency at VOR's.
- e. Some FSS's are assigned 50 kHz frequencies in the 122–126 MHz band (eg. 122.45). Pilots using the FSS A/G system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remoted facility through which they wish to communicate.

Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR facilities.

Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

TERMINAL SERVICES

SFA—Single Frequency Approach.

CTAF—A program designed to get all vehicles and aircraft at airports without an operating control tower on a common frequency.

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas.

D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via landline & data link communications and voice message within range of existing transmitters.

AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information.

PTD-Pilot to Dispatcher.

APP CON—Approach Control. The symbol (R) indicates radar approach control.

TOWER—Control tower.

GCA—Ground Control Approach System.

GND CON-Ground Control.

GCO—Ground Communication Outlet—An unstaffed, remotely controlled, ground/ground communications facility. Pilots at uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the

VHF radio to contact the appropriate ATC facility or six "key clicks" to contact the FSS. The GCO system is intended to be used only on the ground.

DEP CON—Departure Control. The symbol (R) indicates radar departure control.

CLNC DEL-Clearance Delivery.

PRE TAXI CLNC-Pre taxi clearance.

VFR ADVSY SVC—VFR Advisory Service. Service provided by Non-Radar Approach Control.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV-Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or

hours of operation as "Wx obsn svc 1900–0000Z‡" or "other times" may be used when no specific time is given. PMSV facilities manned by forecasters are considered "Full Service". PMSV facilities manned by weather observers are listed as "Limited Service".

OPS—Operations followed by the operator call sign in parenthesis.

CON

RANGE

FLT FLW-Flight Following

MEDIVAC

NOTE: Communication frequencies followed by the letter "X" indicate frequency available on request.

33 AIRSPACE

Information concerning Class B, C, and part-time D and E surface area airspace shall be published with effective times.

Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown.

CLASS B—Radar Sequencing and Separation Service for all aircraft in CLASS B airspace.

CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled airspace.

When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be formatted as:

AIRSPACE: CLASS C svc "times" ctc APP CON other times CLASS E:

0

AIRSPACE: CLASS D svc "times" other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace beginning at either 700' or 1200' AGL. This will be formatted as:

 $\textbf{AIRSPACE: CLASS C} \text{ svc ''times'' ctc } \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL \& abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL \& abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL & abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL & abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL & abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL & abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS C, with CLASS E 700' (or 1200') AGL & abv: } \textbf{AIRSPACE: CLASS C, with C, with Class C, with C, with$

0

AIRSPACE: CLASS D svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv:

AI

AIRSPACE: CLASS E svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv.

NOTE: AIRSPACE SVC "TIMES" INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS. Surface area arrival extensions for instrument approach procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E airspace.

NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE, DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN APPROVED INSTRUMENT PROCEDURE.

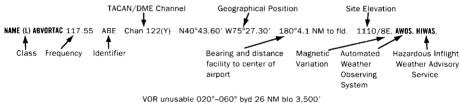
Class E 700′ AGL (shown as magenta vignette on sectional charts) and 1200′ AGL (blue vignette) areas are designated when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless otherwise specified, these 700′/1200′ AGL Class E airspace areas remain in effect continuously, regardless of airport operating hours or surface area status. These transition areas should not be confused with surface areas or arrival extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)



The Airport/Facility Directory lists, by facility name, all Radio Aids to Navigation that appear on National Aeronautical Charting Office Visual or IFR Aeronautical Charts and those upon which the FAA has approved an Instrument Approach Procedure, with exception of selected TACANs. Military TACAN information will be published for Military facilities contained in this publication. All VOR, VORTAC, TACAN, ILS and MLS equipment in the National Airspace System has an automatic monitoring and shutdown feature in the event of malfunction. Unmonitored, as used in this publication, for any navigational aid, means that monitoring personnel cannot observe the malfunction or shutdown signal. The NAVAID NOTAM file identifier will be shown as "NOTAM FILE IAD" and will be listed on the Radio Aids to Navigation line. When two or more NAVAIDS are listed and the NOTAM file identifier is different from that shown on the Radio Aids to Navigation line, it will be shown with the NAVAID listing. NOTAM file identifiers for ILSs and its components (e.g., NDB (LOM) are the same as the associated airports and are not repeated. Automated Surface Observing System (ASOS), Automated Weather Observing System (AWOS), and Hazardous Inflight Weather Advisory Service (HIWAS) will be shown when this service is broadcast over selected NAVAIDs.

NAVAID information is tabulated as indicated in the following sample:



Restriction within the normal altitude/range of the navigational aid (See primary alphabetical listing for restrictions on VORTAC and VOR/DME).

Note: Those DME channel numbers with a (Y) suffix require TACAN to be placed in the "Y" mode to receive distance information

HIWAS—Hazardous Inflight Weather Advisory Service is a continuous broadcast of inflight weather advisories including summarized SIGMETs, convective SIGMETs, AIRMETs and urgent PIREPs. HIWAS is presently broadcast over selected VOR's and will be implemented throughout the conterminous U.S.

ASR/PAR—Indicates that Surveillance (ASR) or Precision (PAR) radar instrument approach minimums are published in the U.S. Terminal Procedures. Only part-time hours of operation will be shown.

RADIO CLASS DESIGNATIONS

VOR/DME/TACAN Standard Service Volume (SSV) Classifications

SSV Class	Altitudes	Distance	
		(NM)	
(T) Terminal	1000' to 12,000'	25	
(L) Low Altitude	1000' to 18,000'	40	
(H) High Altitude	1000' to 14,500'	40	
	14,500' to 18,000'	100	
	18,000' to 45,000'	130	
	45.000' to 60.000'	100	

NOTE: Additionally, (H) facilities provide (L) and (T) service volume and (L) facilities provide (T) service. Altitudes are with respect to the station's site elevation. Coverage is not available in a cone of airspace directly above the facility.

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The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may vary between facilities at different locations.

*	
AB	Automatic Weather Broadcast.
DF	Direction Finding Service.
DME	UHF standard (TACAN compatible) distance measuring equipment.
DME(Y)	UHF standard (TACAN compatible) distance measuring equipment that require TACAN to be placed in the "Y" mode to receive DME.
GS	Glide slope.
Н	Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM at all altitudes).
HH	Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes).
H-SAB	Non-directional radio beacons providing automatic transcribed weather service.
ILS	Instrument Landing System (voice, where available, on localizer channel).
IM	Inner marker.
ISMLS	Interim Standard Microwave Landing System.
LDA	Localizer Directional Aid.
LMM	Compass locator station when installed at middle marker site (15 NM at all altitudes).
LOM	Compass locator station when installed at outer marker site (15 NM at all altitudes).
MH	Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes).
MLS	Microwave Landing System.
MM	Middle marker.
OM	Outer marker.
S	Simultaneous range homing signal and/or voice.
SABH	Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts.
SDF	Simplified Direction Facility.
TACAN	UHF navigational facility-omnidirectional course and distance information.
VOR	VHF navigational facility-omnidirectional course only.
VOR/DME	Collocated VOR navigational facility and UHF standard distance measuring equipment.
VORTAC	Collocated VOR and TACAN navigational facilities.
W	
Z	VHF station location marker at a LF radio facility.
	·

ILS FACILITY PEFORMANCE CLASSIFICATION CODES

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

Official Category: I, II, or III; the lowest minima on published or unpublished procedures supported by the ILS.

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A-4 NM prior to runway threshold, B-3500 ft prior to runway threshold, C-glide angle dependent but generally 750–1000 ft prior to threshold, T-runway threshold, D-3000 ft after runway threshold, and E-2000 ft prior to stop end of runway.

ILS information is tabulated as indicated in the following sample:



FREQUENCY PAIRING PLAN AND MLS CHANNELING

I REGULTOT I AIRTIG I EAR ARD MES CHARRELING								
MLS	VHF	TACAN	MLS	VHF	TACAN	MLS	VHF	TACAN
CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL
500	108.10	18X	568	109.45	31Y	636	114.15	88Y
502	108.30	20X	570	109.55	32Y	638	114.25	89Y
504	108.50	22X	572	109.65	33Y	640	114.35	90Y
506	108.70	24X	574	109.75	34Y	642	114.45	91Y
508	108.90	26X	576	109.85	35Y	644	114.55	92Y
510	109.10	28X	578	109.95	36Y	646	114.65	93Y
512	109.30	30X	580	110.05	37Y	648	114.75	94Y
514	109.50	32X	582	110.15	38Y	650	114.85	95Y
516	109.70	34X	584	110.25	39Y	652	114.95	96Y
518	109.90	36X	586	110.35	40Y	654	115.05	97Y
520	110.10	38X	588	110.45	41Y	656	115.15	98Y
522	110.30	40X	590	110.55	42Y	658	115.25	99Y
524	110.50	42X	592	110.65	43Y	660	115.35	100Y
526	110.70	44X	594	110.75	44Y	662	115.45	101Y
528	110.90	46X	596	110.85	45Y	664	115.55	102Y
530	111.10	48X	598	110.95	46Y	666	115.65	103Y
532	111.30	50X	600	111.05	47Y	668	115.75	104Y
534	111.50	52X	602	111.15	48Y	670	115.85	105Y
536	111.70	54X	604	111.25	49Y	672	115.95	106Y
538	111.90	56X	606	111.35	50Y	674	116.05	107Y
540	108.05	17Y	608	111.45	51Y	676	116.15	108Y
542	108.15	18Y	610	111.55	52Y	678	116.25	109Y
544	108.25	19Y	612	111.65	53Y	680	116.35	110Y
546	108.35	20Y	614	111.75	54Y	682	116.45	111Y
548	108.45	21Y	616	111.85	55Y	684	116.55	112Y
550	108.55	22Y	618	111.95	56Y	686	116.65	113Y
552	108.65	23Y	620	113.35	80Y	688	116.75	114Y
554	108.75	24Y	622	113.45	81Y	690	116.85	115Y
556	108.85	25Y	624	113.55	82Y	692	116.95	116Y
558	108.95	26Y	626	113.65	83Y	694	117.05	117Y
560	109.05	27Y	628	113.75	84Y	696	117.15	118Y
562	109.15	28Y	630	113.85	85Y	698	117.25	119Y
564	109.25	29Y	632	113.95	86Y			
566	109.35	30Y	634	114.05	87Y			

FREQUENCY PAIRING PLAN AND MLS CHANNELING

The following is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels.

TACAN	VHF	MLS	TACAN	VHF	MLS	TACAN	VHF	MLS
CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL
2X	134.5	-	19Y	108.25	544	25X	108.80	-
2Y	134.55	-	20X	108.30	502	25Y	108.85	556
11X	135.4	-	20Y	108.35	546	26X	108.90	508
11Y	135.45	-	21X	108.40	-	26Y	108.95	558
12X	135.5	-	21Y	108.45	548	27X	109.00	-
12Y	135.55	-	22X	108.50	504	27Y	109.05	560
17X	108.00	-	22Y	108.55	550	28X	109.10	510
17Y	108.05	540	23X	108.60	-	28Y	109.15	562
18X	108.10	500	23Y	108.65	552	29X	109.20	-
18Y	108.15	542	24X	108.70	506	29Y	109.25	564
19X	108.20	-	24Y	108.75	554	30X	109.30	512

TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel	
30Y	109.35	566	63X	133.60	-	95Y	114.85	650	
31X	109.40	-	63Y	133.65	-	96X	114.90	-	
31Y	109.45	568	64X	133.70	-	96Y	114.95	652	
32X	109.50	514	64Y	133.75	-	97X	115.00	-	
32Y	109.55	570	65X	133.80	-	97Y	115.05	654	
33X	109.60	-	65Y	133.85	-	98X	115.10	-	
33Y	109.65	572	66X	133.90	-	98Y	115.15	656	
34X	109.70	516	66Y	133.95	-	99X	115.20	-	
34Y	109.75	574	67X	134.00	-	99Y	115.25	658	
35X	109.80	-	67Y	134.05	-	100X	115.30	-	
35Y	109.85	576	68X	134.10	-	100Y	115.35	660	
36X	109.90	518	68Y	134.15	-	101X	115.40	-	
36Y	109.95	578	69X	134.20	-	101Y	115.45	662	
37X	110.00	-	69Y	134.25	_	102X	115.50	_	
37Y	110.05	580	70X	112.30	_	102Y	115.55	664	
38X	110.10	520	70Y	112.35	-	103X	115.60	-	
38Y	110.15	582	71X	112.40	_	103Y	115.65	666	
39X	110.20	-	71Y	112.45		104X	115.70	-	
39Y	110.25	584	72X	112.50		104X	115.75	668	
40X	110.20	522	72Y	112.55		105X	115.75	-	
40X 40Y	110.35	586	73X	112.60	-	105X	115.85	670	
41X	110.33	360	73X 73Y	112.65	-	106X	115.85	670	
41X 41Y	110.45	588	74X	112.00	-	106X	115.95	672	
					-			0/2	
42X	110.50	524	74Y	112.75	-	107X	116.00		
42Y	110.55	590	75X	112.80	-	107Y	116.05	674	
43X	110.60	-	75Y	112.85	-	108X	116.10	-	
43Y	110.65	592	76X	112.90	-	108Y	116.15	676	
44X	110.70	526	76Y	112.95	-	109X	116.20	- 070	
44Y	110.75	594	77X	113.00	-	109Y	116.25	678	
45X	110.80		77Y	113.05	-	110X	116.30		
45Y	110.85	596	78X	113.10	-	110Y	116.35	680	
46X	110.90	528	78Y	113.15	-	111X	116.40		
46Y	110.95	598	79X	113.20	-	111Y	116.45	682	
47X	111.00	-	79Y	113.25	-	112X	116.50	-	
47Y	111.05	600	80X	113.30	-	112Y	116.55	684	
48X	111.10	530	80Y	113.35	620	113X	116.60	-	
48Y	111.15	602	81X	113.40	-	113Y	116.65	686	
49X	111.20	-	81Y	113.45	622	114X	116.70	-	
49Y	111.25	604	82X	113.50	-	114Y	116.75	688	
50X	111.30	532	82Y	113.55	624	115X	116.80	-	
50Y	111.35	606	83X	113.60	-	115Y	116.85	690	
51X	111.40	-	83Y	113.65	626	116X	116.90	-	
51Y	111.45	608	84X	113.70	-	116Y	116.95	692	
52X	111.50	534	84Y	113.75	628	117X	117.00	-	
52Y	111.55	610	85X	113.80	-	117Y	117.05	694	
53X	111.60	-	85Y	113.85	630	118X	117.10	-	
53Y	111.65	612	86X	113.90	-	118Y	117.15	696	
54X	111.70	536	86Y	113.95	632	119X	117.20	-	
54Y	111.75	614	87X	114.00	-	119Y	117.25	698	
55X	111.80	-	87Y	114.05	634	120X	117.30	-	
55Y	111.85	616	88X	114.10	-	120Y	117.35	-	
56X	111.90	538	88Y	114.15	636	121X	117.40	-	
56Y	111.95	618	89X	114.20	-	121Y	117.45	-	
57X	112.00	-	89Y	114.25	638	122X	117.50	_	
57Y	112.05	-	90X	114.30	-	122Y	117.55	-	
58X	112.10	-	90Y	114.35	640	123X	117.60	_	
58Y	112.15	-	91X	114.40		123Y	117.65		
59X	112.20		91Y	114.45	642	124X	117.70		
59Y	112.25	_	92X	114.50	U-12	124X	117.75	-	
60X	133.30	-	92Y	114.55	644	125X	117.73	-	
60X	133.35	-	93X	114.60	0-+	125X 125Y	117.85	-	
61X	133.40	-	93X 93Y	114.65	646	126X	117.90	-	
61Y	133.40	-			040	126X 126Y		-	
		-	94X	114.70	649	1201	117.95	-	
62X 62Y	133.50 133.55	-	94Y 95X	114.75 114.80	648				
U∠ĭ	133.33	-	ADY	114.80	-				

35 COMM/NAV/WEATHER REMARKS:

These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.

AHOSKIE N36°17.96′ W77°10.53′ NOTAM FILE ASJ.

NDB (MHW) 415 ASJ at Tri–Co. NDB unmonitored.

WASHINGTON L-35C, 36G

WASHINGTON

AHOSKIE

TRI-CO (ASJ) 9 W UTC-5(-4DT) N36°17.85′ W77°10.25′ 68 B FUEL 100LL, JET A1+ NOTAM FILE ASJ RWY 01-19: H4502X75 (ASPH) S-35, D-45 MIRL

RWY 01: REIL. PAPI(P2L)—GA 3.05° TCH 39'. Road.

RWY 19: REIL. PAPI(P2L)—GA 3.0° TCH 36'. Tree.

AIRPORT REMARKS: Attended Mon-Sat 1400Z‡-dusk, Sun 1900Z‡-dusk, Rwy 01–19 -4' ditch 120' left and right of centerline. REIL Rwy 01 OTS indef. REIL Rwy 19 OTS indef. PAPI Rwy 19 OTS indef. ACTIVATE MIRL Rwy 01–19, REIL Rwy 01 and

Rwy 19 OTS indef. ACTIVATE MIRL Rwy 01–19, REIL Rwy 01 and Rwy 19—CTAF.

WEATHER DATA SOURCES, AWOS_3 119, 075 (252) 345_2967

WEATHER DATA SOURCES: AWOS-3 119.075 (252) 345-2967.

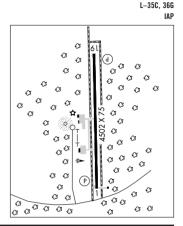
COMMUNICATIONS: CTAF/UNICOM 122.8

WASHINGTON CENTER APP/DEP CON 123.85

 ${\bf RADIO~AIDS~TO~NAVIGATION:}~{\tt NOTAM~FILE~RDU.}$

COFIELD (L) VORTAC 114.6 CVI Chan 93 N36°22.37′ W76°52.29′ 262° 15.2 NM to fld. 70/09W.

AHOSKIE NDB (MHW) 415 ASJ N36°17.96′ W77°10.53′ fld. NOTAM FILE ASJ. NDB unmonitored.



AIR HARBOR (See GREENSBORO)

AIRLI N34°11.48′ W77°51.98′ NOTAM FILE ILM.

NDB (LOM) 281 IL 346° 5.1 NM to Wilmington Intl. Unmonitored when twr clsd.

CHARLOTTE

CHARLOTTE

ALBEMARLE

STANLY CO (VUJ) 4 NE UTC-5(-4DT) N35°25.00′ W80°09.05′

609 B S4 **FUEL** 100LL, JET A1+ OX 2 TPA—See Remarks NOTAM FILE VUJ

RWY 04R-22L: H5500X100 (ASPH) D-130, ST-175 MIRL 0.6% up SW

H-9B, 12G, L-25E, 36E

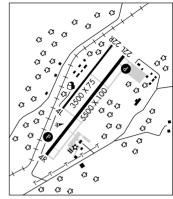
RWY 04R: REIL. PAPI(P2L)—GA 3.0° TCH 39'. Trees.

RWY 22L: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Tree.

RWY 04L-22R: H3500X75 (ASPH) D-130, ST-175 MIRL 0.3% up SW

RWY 04L: Fence. RWY 22R: Trees.

AIRPORT REMARKS: Attended 1300–0100Z‡. Fuel avbl from FBO 1300–0100Z‡ other times PPR, C704–982–9013. Self–service fuel available 24 hrs with credit card. Government credit card accepted. Be alert for high speed low level mil acft in vicinity. Frequent ngt mil opr. Frequent assault ops to Rwy 22R. Deer and bird hazard. TPA—1709 (1100), rectangular 2309 (1700), overhead 2809 (2200). No maintenance personnel or equipment. No cargo handling equipment, hangar space and security avbl. Fire protection limited. Regional Training Site (RTS) support coordinated thru 145 AW/CE DSN 231–4229. Air National Guard ramp rstd to mil use only with PPR. Maximum three C–130 acft. Ctc 145 AW Afld Management DSN 231–4177, C704–391–4177. ACTIVATE MIRL Rwy 04L–22R and Rwy 04R–22L and REIL Rwy 04R and Rwy 22L—CTAF. PAPI Rwy 04R and Rwy 22L on during twr opr, other times—CTAF.



WEATHER DATA SOURCES: AWOS-3 128.175 (704) 986-2097.

COMMUNICATIONS: CTAF 126.275 UNICOM 123.0

CHARLOTTE APP/DEP CON 128.32 CLNC DEL 128.5

TOWER 126.275 (Mon-Fri 1300-0300Z‡) except holidays or by NOTAM. GND CON 121.75 CLNC DEL 121.75 AIRSPACE: CLASS D svc Mon-Fri 1300-0300Z‡ except holidays or by NOTAM, other times CLASS G. RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93′ W79°35.28′ 297° 30.2 NM to fld. 590/03W.

ALLER NDB (MHW/LOM) 346 VU N35°29.35′ W80°05.01′ 223° 5.5 NM to fld.

ILS 110.55 I-VUJ Rwy 22L. LOM ALLER NDB.

COMM/NAV/WEATHER REMARKS: Charlotte CLNC DEL OTS indef. Twr svc provided by Air Guard.

ALBERT J. ELLIS (See JACKSONVILLE)

ALLER N35°29.35′ W80°05.01′ NOTAM FILE RDU.

NDB (MHW/LOM) 346 VU 223° 5.6 NM to Stanly Co.

CHARLOTTE L-25E. 36F

ALWOOD N35°42.41′ W77°22.31′ NOTAM FILE PGV. **NDB (MHW)** 230 AQE 198° 4.3 NM to Pitt–Greenville.

CHARLOTTE L-35C

ATLANTA

IAP

H-9B, 12F, L-25B

ANDREWS

WESTERN CAROLINA RGNL (RHP) 2 W UTC-5(-4DT) N35°11.71′ W83°51.78′

1697 B S4 FUEL 100LL, JET A, A1+ OX 1, 2 NOTAM FILE RHP

RWY 08-26: H5500X100 (ASPH) S-25, D-45 MIRL 0.3% up NE

RWY 08: REIL. PAPI(P2L)—GA 3.5° TCH 38'. Railroad. Rgt tfc.

RWY 26: PAPI (P2L)—GA 4.0° TCH 44'. Trees.

AIRPORT REMARKS: Attended Nov-Mar 1300-2200Z‡, Apr-Oct 1300-0000Z‡. For fuel svc after hrs call 828-321-5114. Low flying acft overfly arpt. For information ctc FSS. Rwy 08, 8' drop-off, 108 ft from thid both sides in rwy safety area. Twy unigtd. ACTIVATE REIL Rwy 08—CTAF. PAPI Rwy 08 and Rwy 26 opr continuously. MIRL Rwy 08-26 on dusk-dawn. To incr ints—CTAF

WEATHER DATA SOURCES: AWOS-3 119.675 (828) 321-1049.

COMMUNICATIONS: CTAF/UNICOM 122.8

ATLANTA CENTER APP/DEP CON 134.8

RADIO AIDS TO NAVIGATION: NOTAM FILE MCN.

HARRIS (L) VORTACW 109.8 HRS Chan 35 N34°56.58′ W83°54.94′ 010° 15.3 NM to fld. 3660/00E. HIWAS.

ANSON CO (See WADESBORO)

ASHE CO (See JEFFERSON)

ASHEBORO RGNL (HBI) 6 SW UTC-5(-4DT) N35°39.27′ W79°53.69′

671 B S4 **FUEL** 100LL, JET A1+ NOTAM FILE HBI

RWY 03-21: H5501X100 (ASPH) S-20 MIRL

RWY 03: REIL. PAPI(P2L)—GA 3.5° TCH 50'.

RWY 21: REIL. PAPI(P2L)-GA 3.0° TCH 35'. Trees.

AIRPORT REMARKS: Attended Oct-May 1300Z‡-dusk, Jun-Sep 1300Z‡-0100Z‡. 24 hr self svc avbl with credit card. Rwy 03 has 40' dropoff 400' from thId. Terrain rising south of the arpt.

ACTIVATE REIL Rwy 03 and 21, PAPI Rwy 03 and Rwy 21 after 0400Z‡, MIRL Rwy 03-21—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.275 (336) 626-7933.

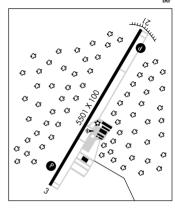
COMMUNICATIONS: CTAF/UNICOM 122.8

R GREENSBORO APP/DEP CON 118.5

GCO 130.70 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE GSO.

GREENSBORO (H) VORTAC 116.2 GSO Chan 109 N36°02.74′ W79°58.58′ 173° 23.8 NM to fid. 879/03W. HIWAS. CITY LAKE NDB (MHW) 266 CQJ N35°42.98′ W79°51.92′



ASHEE N36°26.04′ W81°19.32′ NOTAM FILE GEV.
NDB (MHW/LOM) 410 JU 276° 4.7 NM to Ashe Co.

209° 4 NM to fld. NOTAM FILE HBI.

CINCINNATI L-25D

ATLANTA

H-9B, 12G, L-25C

CHARLOTTE

H-9B, 12G, L-25E, 36F

ASHEVILLE RGNL (AVL) 9 S UTC-5(-4DT) N35°26.17′ W82°32.51′

2165 B S2 FUEL 100LL, JET A OX 3 Class I, ARFF Index B NOTAM FILE AVL RWY 16-34: H8001X150 (ASPH-GRVD) S-120, D-160, ST-175, DT-260 HIRL CL

RWY 16: MALSR. PAPI(P4L)—GA 3.0° TCH 54'. 0.4% down.
RWY 34: MALSR. TDZL. VASI(V4L)—GA 2.8° TCH 57'. Rgt tfc.

0.9% up.

AIRPORT REMARKS: Attended continuously. PPR for unscheduled air carrier opr with more than 30 passenger seats 0400–1200Z‡; call arpt manager 828–684–2226. Rwy 16 touchdown rwy visual range avbl. HIRL preset to off when twr clsd, to increase ints and

ACTIVATE HIRL and MALSR Rwy 16 and Rwy 34—CTAF.

WEATHER DATA SOURCES: ASOS (828) 681-0131. LLWAS COMMUNICATIONS: CTAF 121.1 ATIS 120.2 UNICOM 122.95

 ${\bf R}$ app/dep con 125.8 (340–159°) 124.65 (160–339°)1130–0400Z‡

ATLANTA CENTER APP/DEP CON 132.625 (0400-1130Z‡)

TOWER 121.1 (1130-0400Z‡) GND CON 121.9

AIRSPACE: CLASS C svc 1130-0400Z‡ ctc APP CON other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

SUGARLOAF MOUNTAIN (L) VORTAC 112.2 SUG Chan 59

N35°24.39′ W82°16.12′ 280° 13.5 NM to fld. 3970/02W.

BROAD RIVER NDB (HW) 379 BRA N35°16.37′ W82°28.26′

344° 10.4 NM to fld. NOTAM FILE AVL. (Unmonitored when twr closed).

KEANS NDB (LOM) 357 IM N35°31.97′ W82°35.25′ 163° 6.2 NM to fld.

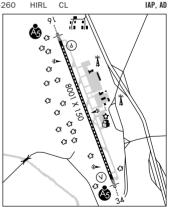
ILS 110.5 I-AVL Rwy 34. Class IB. (Unmonitored when twr clsd).

ILS 110.9 I–IMO Rwy 16. Class IA. LOM KEANS NDB. (LOC only). ILS not avbl when twr clsd. Localizer unusable byd 20° rgt of course.

ASR (1130-0400Z±)

COMM/NAV/WEATHER REMARKS: Communications unavailable blo 6,000' except by RALEIGH RADIO on 122.1R when avbl app con clsd. ASOS wind unreliable when twr closed.

AVERY CO/MORRISON FLD (See SPRUCE PINE)



CHARL OTTE

CHARLOTTE

L-35B

L-25D

BARRETTS MOUNTAIN N35°52.13′ W81°14.43′ NOTAM FILE RDU.

(L) VOR/DME 110.8 BZM Chan 45 230°10.6 NM to Hickory Rgnl. 1880/06W.

RCO 122.1R 110.8T (RALEIGH RADIO)

BEAUFORT

MICHAEL J. SMITH FLD (MRH) 1 N UTC-5(-4DT) N34°44.01′ W76°39.64′

11 B S4 **FUEL** 100LL, JET A1+ OX 1,2 LRA NOTAM FILE MRH

RWY 08-26: H4249X100 (ASPH) D-60 MIRL

RWY 08: Brush. RWY 26: Trees.

RWY 03-21: H4191X150 (ASPH) S-12.5 MIRL

RWY 03: REIL. PAPI(P2L)—GA 3.0°TCH 20'. Thid dspicd 186'. Road.

RWY 21: REIL. PAPI(P2L)—GA 3.0°TCH 24'. Trees.

RWY 14-32: H4001X100 (ASPH) S-12.5

RWY 14: Boat. RWY 32: Thid dspicd 490'. Trees.

AIRPORT REMARKS: Attended 1300Z‡-dusk. For svc after hrs call 252-723-9874 or 252-725-7230. Deer and birds on and invof

arpt. Noise abatement procedures in effect. Rwy 08–26 is preferred rwy, wind and safety permitting. Avoid overflight of Beaufort Waterfront. Ctc arpt manager for further info 252–728–1928. ACTIVATE MIRL Rwy 03–21 and Rwy 08–26, PAPI

Rwy 03 and Rwy 21, REIL Rwy 03 and Rwy 21—CTAF.

WEATHER DATA SOURCES: ASOS 135.375 (252) 728-2055.

COMMUNICATIONS: CTAF/UNICOM 122.8

(R) CHERRY POINT APP/DEP CON 124.1 CLNC DEL 125.65

 $\textbf{RADIO AIDS TO NAVIGATION:} \ \ \mathsf{NOTAM} \ \ \mathsf{FILE} \ \ \mathsf{ISO}.$

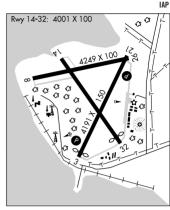
KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26′

W77°33.50′ 136° 58.4 NM to fld. 106/05W.

MOREHEAD NDB (MHW) 269 MRH N34°43.87′ W76°39.73′

at fld. NOTAM FILE MRH. NDB unmonitored. **ILS** 108.5 I-BFO Rwy 26. Localizer only.

13 106.5 I-BFO RWy 26. Localizer offig.



BILLY MITCHELL (See HATTERAS)

BLADENBORO (3W6) O E UTC-5(-4DT) N34°33.01′ W78°46.98′ 115 NOTAM FILE RDU

CHARLOTTE

RWY 02-20: 2850X135 (TURF)

RWY 02: Trees. RWY 20: Trees.

AIRPORT REMARKS: Unattended.
COMMUNICATIONS: CTAF 122.9

BOGUE MCALF (NJM) MC 4 E UTC-5(-4DT) N34°41.43′ W77°01.78′ CHARL OTTE 21 B TPA—See Remarks NOTAM FILE RDU Not insp 1-35B RWY 05-23: 3997X96 (PSP) S-57, T-150, ST-175 ΠΙΔΡ HIRI

CI

RWY 23: MALSF. OLS. TDZL. RWY 05: MALSE OLS TD71

ARRESTING GEAR/SYSTEM

RWY 05 M21(B) (660')

M21(B) (652') RWY 23

MILITARY SERVICE: LGT Rwy 05 and 23 apch lgt NSTD. Apch lgt have 10 bars 100 ft apart, first 5 bars have strobe lgt A-GEAR All non-emerg full stop ldg by tail hook acft are arrested and rgr Ldg Signal Officer (LSO). LSO avbl with 24 hr notice. FUEL J5 FLUID SP TRAN ALERT No hangar, acft svc or tran maintenance avbl. Hot refueling rar qualified crew member present to assist.

MILITARY REMARKS: Opr hrs published by 2nd Marine Air Wing. Ctc Air OPS req schedule/usage DSN 582-0674, C252-466-0674. See FLIP AP/1 Supplementary Arpt Remarks. CAUTION All rwy and twy sfc consist of AM-2 aluminum matting coated with non-skid all wx sfc, braking action good, runway condition reading 19-25. IFC PAT Left tfc Rwy 05, TPA-1000(979) 11/2 NM abeam and outside White Oak Elementary School, Rwy 23 1000(979) 1½ NM abeam. MISC Vertical tkf of AV8 acft from Confined Area Landing (CAL) sites located 800' SE of apch end Rwv 23.

COMMUNICATIONS: SFA CTAF 126.45

(R) CHERRY POINT APP/DEP CON 119.35 377.175 (W) 124.1 268.7 (E)

TOWER 126.45 256.875 (opr hrs published by 2nd Marine Air Wing, ctc Air Ops request schedule/usage DSN 582-0674 C252-466-0674) GND CON 262.6 CLNC DEL 262.6 GCA 328.4

PMSV METRO 344.6 (Radar wx advisory syc less than continuous, by special req.)

AIRSPACE: CLASS D svc opr hrs published by 2nd Marine Air Wing, ctc Air Ops request schedule/usage DSN 582-0674 C252-466-0674 other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

CHERRY POINT MCAS (L) TACAN Chan 75 NKT (112.8) N34°54.13′ W76°52.49′ 220° 14.8 NM to fld. 28/9W. COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima. Radar svc avbl by PPR only, during scheduled fld hrs. ctc twr DSN 582-0697, C252-466-0697 for PPR.

BOONE N36°11.93′ W81°39.09′/3038. (TNB)

CHARL OTTE L-25C

AWOS-3 118.525 (828) 268-8921

BREVARD

TRANSYLVANIA COUNTY (22W) 4 E UTC-5(-4DT) N35°16.22′ W82°38.65′

ATLANTA

2110 S4 FUEL 100LL NOTAM FILE RDU

RWY 09-27: H2903X50 (ASPH)

RWY 09: Trees.

RWY 27: Thid dsplcd 80'. Tree.

AIRPORT REMARKS: Attended Nov-Mar 1330Z±-dusk, Apr-Oct 1330-2300Z±. Fuel self serve with credit card, Farm access road adjacent to Rwy 09. Arpt open daytime VFR only, no ops permitted from end of civil twilight to beginning of civil twilight local time or between 0130Z‡ and 1130Z‡. Student pilot ops prohibited, contact 828-877-5801 for other flight restrictions. Noise abatement procedures in effect, ctc arpt manager call 828-877-5801 for details.

COMMUNICATIONS: CTAF/UNICOM 122.7

BROAD RIVER N35°16.37′ W82°28.26′ NOTAM FILE AVI NDB (HW) 379 BRA 344° 10.4 NM to Asheville Rgnl.

ΔΤΙ ΔΝΤΔ L-25C

BRUNSWICK CO (See OAK ISLAND)

CINCINNATI

L-25E, 36F

ΙΔΡ

BURLINGTON-ALAMANCE RGNL (BUY) 3 SW UTC-5(-4DT) N36°02.91′ W79°28.49′

617 B S4 FUEL 100LL, JET A1+ OX 3 NOTAM FILE BUY

RWY 06-24: H4999X99 (ASPH) S-30, D-36, DT-57 HIRL 0.6% up SW

RWY 06: REIL. PAPI(P4L)-GA 3.0°TCH 45'. Trees.

RWY 24: REIL. PAPI(P2L)-GA 3.0° TCH 27'. Trees.

AIRPORT REMARKS: Attended 1300-0100Z‡. CLOSED Christmas day. After hrs fuel or emergency only 919-667-3293. PAEW SE Rwy 06-24 SR-SS Mon-Fri; crane located SE Rwy 24. Deer and water-fowl invof arpt. Rwy 06, 15' drop off 50' fm thld 220' left of centerline. PAPI Rwy 06 and Rwy 24 opr continuously. ACTIVATE REIL Rwy 06 and Rwy 24-CTAF. HIRL Rwy 06-24 on dusk-dawn, to change ints-CTAF.

WEATHER DATA SOURCES: ASOS 135.325 (336)570-9813.

COMMUNICATIONS: CTAF/UNICOM 122.975

RCO 122.1R 116.2T (RALEIGH RADIO)

R GREENSBORO APP/DEP CON 118.5 CLNC DEL 120.25

RADIO AIDS TO NAVIGATION: NOTAM FILE BUY.

LIBERTY (L) VORTAC 113.0 LIB Chan 77 N35°48.70' W79°36.76' 028° 15.7 NM to fld. 830/03W. NOTAM FILE RDU.

HIMUN NDB(MHW/LOM) 361 HB N35°58.69' W79°35.08' 044° 6.8 NM to fld. NOTAM FILE BUY.

ILS 111.35 I-HBJ Rwy 06. LOM HIMUN NDB. Unmonitored.

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CAMP N34°16.31′ W78°42.84′ NOTAM FILE RDU.

NDB (MHW) 227 CPC at Columbus Co Muni.

Unmonitored Mon-Sat 2300-1300Z‡ and Sun 2300-1400Z‡.

CHARLOTTE L-35A

CANDLER

MEYERS HELIPORT (N39) 4 S UTC-5(-4DT) N35°30.37′ W082°44.05′

ATLANTA

2350 NOTAM FILE RDU HELIPAD H1: 80X40 (CONC) **HELIPORT REMARKS:** Unattended. COMMUNICATIONS: CTAF 122.9

CAROLINA BEACH N34°06.38' W77°57.68' NOTAM FILE RDU. CHARLOTTE

NDB (HW) 216 CLB 022° 10 NM to Wilmington Intl.

Unmonitored when Wilmington twr closed.

H-9C, L-23A, 35A

CASWELL (See YANCEYVILLE)

CAUSEY (See LIBERTY)

CHAPEL HILL

HORACE WILLIAMS (IGX) 1 N UTC-5(-4DT) N35°56.10′ W79°03.96′ 512 B FUEL 100LL, JET A NOTAM FILE IGX

RWY 09-27: H4005X75 (ASPH) S-12.5 MIRL 0.6% up W RWY 09: REIL. PAPI(P4L)—GA 4.0° TCH 21'. Trees.

RWY 27: REIL. PAPI (P4L)—GA 4.0° TCH 23'. Trees. Thid dspicd 730'. Rgt tfc.

AIRPORT REMARKS: Attended 1300-0200Z‡. Arpt unattended Christmas and New Years day. Arpt CLOSED to pure Jet powered aircraft. except for university users transporting persons on official university business. Arpt CLOSED to acft 12,500 lbs or greater, gliders, balloons, miniature acft, ultralights and parachute jumping activity. Deer on and in vicinity of arpt. No recreational or training flights from 0200-1100Z‡; Clsd to transient acft ops 0200-1100Z‡ except acft on university or hospital business, all other transient acft opr 0200-1100Z± must have 24 hr PPR call arpt manager 919-962-1337, Parallel turf taxiway unusable, Rwy 09 has a 60' dropoff 200' from thid left and right of centerline in rwy safety area. Be alert for rough turf areas marked with tires painted white. No practice apchs/ldgs without prior permission call 919-962-1337. Rwy 09-27 dsplcd thid unigtd; 3495 ft useable at ngt. Rwy 27 has 200 ft overrun. ACTIVATE MIRL Rwy 09-27 and REIL Rwy 09 and Rwy 27-CTAF.

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CHARLOTTE

L-36F

WEATHER DATA SOURCES: ASOS 134.575 (919) 942-2538.

COMMUNICATIONS: CTAF/UNICOM 123.0

R RALEIGH APP/DEP CON 132.35 CLNC DEL 126.5

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

RALEIGH/DURHAM (H) VORTACW 117.2 RDU Chan 119 429/04W.

N35°52.35′ W78°47.00′ 289° 14.3 NM to fld.

CHARLOTTE

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CHARLOTTE
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CHARLOTTE/DOUGLAS INTL (CLT) 4 W UTC-5(-4DT) N35°12.82' W80°56.94'
748 B S4 FUEL 100LL JETA 0X 1 LRA Class I. ARFF Index D

NOTAM FILE CLT

H-9B, 12G, L-25D, 36E IAP, AD

RWY 18C-36C: H10000X150 (CONC-WC) S-140, D-200, ST-175, DT-350, DDT-650 HIRL CL

RWY 18C: MALSR. PAPI(P4R)—GA 3.0° TCH 69'. Road. 0.6% down. RWY 36C: ALSF2. TDZL. PAPI(P4L)—GA 3.0° TCH 72'. 0.4% up.

RWY 18R-36L: H9000X150 (CONC-GRVD) S-140, D-200, DT-175, DDT-350 HIRL

RWY 36L: ALSF2.

RWY 18L-36R: H8676X150 (ASPH-CONC-GRVD) S-140, D-200, ST-175, DT-350, DDT-650 HIRL CL

RWY 18L: REIL. VASI(V6R)—Upper GA 3.25° TCH 90.9'. Lower GA 2.75° TCH 52.4'. Railroad.

RWY 36R: ALSF2. TDZL. PAPI(P4R)—GA 3.0° TCH 71'. 0.3% up.
RWY 05-23: H7502X150 (ASPH-CONC-GRVD) S-200. D-350.

ST-175, DT-650 HIRL 0.5% up NE

RWY 05: MALSR. PAPI(P4L)—GA 3.0° TCH 89'. Trees.

RWY 23: REIL. VASI(V4R)—Upper GA 3.25° TCH 93.7'. Lower GA 3.0° TCH 55.8'.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 05:	TORA-7502	TODA-7502	ASDA-7092	LDA-7092
RWY 18L:	TORA-8676	TODA-8676	ASDA-8676	LDA-8676
RWY 18C:	TORA-10000	TODA-10000	ASDA-10000	LDA-10000
RWY 18R:	TORA-9000	TODA-9000	ASDA-9000	LDA-9000
RWY 23:	TORA-7502	TODA-7502	ASDA-7502	LDA-7502
RWY 36L:	TORA-9000	TODA-9000	ASDA-9000	LDA-9000
RWY 36C:	TORA-10000	TODA-10000	ASDA-10000	LDA-10000
RWY 36R:	TORA-8676	TODA-8676	ASDA-8676	LDA-8676

ARRESTING GEAR/SYSTEM

RWY 18R. ALSE2

RWY 36R: EMAS 255' X 170'

AIRPORT REMARKS: Attended continuously. Be alert for flocks of migratory birds on and invof arpt. Noise abatement procedure in effect 0400–1200Z‡; land Rwy 05 takeoff Rwy 23. Twy E13 closed indef. Rwy 18L touchdown, midfield and rollout runway visual range avbl. Rwy 36R touchdown, midfield and rollout runway visual range avbl. Rwy 36C touchdown, midfield and rollout runway visual range avbl. ASDE–X surveillance system in use: Pilots should opr transponders with mode C on all twys and rwys. Flight Notification Service (ADCUS) avbl. NOTE: See Special Notices—Noise Abatement Procedures and Continuous Power Facilities.

WEATHER DATA SOURCES: ASOS (704)359-0235. HIWAS 115.0 CLT. LLWAS. TDWR.

COMMUNICATIONS: D-ATIS ARR 121.15 D-ATIS DEP 132.1 UNICOM 122.95

CHARLOTTE RCO 122.4 (RALEIGH RADIO)

R CHARLOTTE APP/DEP CON 134.75 (246°-360° 8000′ and blo) 128.32 (001°-119° 8000′ and blo) 120.05 (120°-245° 8000′ and blo) 124.0 (075°-245° abv 8000′) 120.5 (246°-074° abv 8000′)

CHARLOTTE TOWER 118.1 (Rwys 18L-36R and 05-23) 126.4 (Rwy 18C-36C) 133.35 (Rwys 18R and 36L) GND CON 121.9 (360°-179°) 121.8 (180°-359°) CLNC DEL 127.15

AIRSPACE: CLASS B See VFR Terminal Area Chart.

RADIO AIDS TO NAVIGATION: NOTAM FILE CLT.

(L) VORW/DME 115.0 CLT Chan 97 N35°11.42′ W80°57.11′ 022° 1.5 NM to fld. 732/05W. HIWAS.

DMF unusable:

015°-050° byd 25 NM blo 3000'.

050°-100° byd 25 NM blo 2500'.

270°-350° byd 20 NM blo 5000'.

FT MILL (L) VORTAC 112.4 FML Chan 71 N34°59.34′ W80°57.29′ 004° 13.5 NM to fld. 645/02W. NOTAM FILE AND. SHUTDOWN.

TRYON NDB (LOM) 242 CL N35°09.49′ W81°01.24′ 056° 5.1 NM to fld.

ILS 110.95 I-CLT Rwy 05. Class IE. LOM TRYON NDB.

ILS 111.3 I-PEP Rwy 18C. Class IA.

IL\$ 110.35 I-VKO Rwv 18L.

ILS/DME 109.5 I-APU Chan 32 Rwy 23. GS unusable blo 1100' MSL.

IL\$ 111.7 I—DQG Rwy 36C. Class IIID. LOC unusable throughout zone 5 due to structure at .56 NM. IL\$/DME 108.9 I—BQC Chan 26 Rwy 36R. Class IIIE.

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WILGROVE AIR PARK (8A6) 9 E UTC-5(-4DT) N35°12.83′ W80°40.20′
                                                                                                     CHARLOTTE
  799 B FUEL 100LL NOTAM FILE RDU
  RWY 17-35: H2835X40 (ASPH) S-10
                                        LIRL (NSTD)
    RWY 17: Thid dsplcd 100'. Trees.
                                          RWY 35: Thid dspicd 525', Trees.
  AIRPORT REMARKS: Attended 1300Z‡-dusk. Arpt CLOSED to pure jet powered acft. Tall steel tower 2 miles from thid
    Rwy 17 approximately 6000' right of centerline, 50 ft trees within 80 ft of centerline both sides of rwy.
    Numerous obstructions within 60 ft from centerline 15 ft-40 ft in height. Deer invof arpt. Rwv 35 dsplcd thld
    marked for day ops with three cones each side of rwy. Rwy 17-35 NSTD LIRL, no thid lgts. Rotating bcn ops
    dusk-0600Z±, LIRL Rwy 17-35 opr dusk-0600Z±, ACTIVATE NSTD LIRL Rwy 17-35-CTAF.
  COMMUNICATIONS: CTAF/UNICOM 122.725
CHARLOTTE-MONROE EXECUTIVE (See MONROE)
CHERRY POINT MCAS (CUNNINGHAM FLD) (NKT)(KNKT) MC 2 NE UTC-5(-4DT)
                                                                                                     CHARL OTTE
       N34°54.19' W76°52.84'
                                                                                                    H-9C, L-35B
                                                                                                       DIAP. AD
  29 B Class LARFF Index Ltd NOTAM FILE RDU
                                                         Not insp
  RWY 14L-32R: H8984X200 (ASPH) PCN 52 R/B/W/T HIRL
  RWY 14R-32L: H8399X200 (ASPH) PCN 52 R/B/W/T
                                                                CI
                                                        HIRI
    RWY 14R: Thid denied 2734'
                                    RWY 32L: ALSF1. PAPI(P4L)—GA 3.0° TCH 78'.
  RWY 05R-23L: H8188X200 (ASPH) PCN 55 R/B/W/T
                                                       HIRI
                                                        HIRI
  RWY 05L-23R: H7553X200 (ASPH)
                                   PCN 62 R/B/W/T
    RWY 23R: PAPI(P4L)-GA 3.0° TCH 74'.
  ARRESTING GEAR/SYSTEM
    RWY 05R HOOK E28(B) (1500')
                                                                                HOOK E28(B) (1500') → RWY 32L
    RWY 14L ← HOOK E28(B) (1500')
                                                                                  HOOK E28(B) (1500') RWY 23R
  MILITARY SERVICE: LGT Portable lgt-mobile flood lgt. A-GEAR All E-28(B) in raised position except on ldg rwy. Rgr
    15 minutes prior notice. JASU 2(GTC-85) 1(NCPP-105). 2 working days prior notice rgr.
                                                                                       FUEL J5. Hot pit refuel
            FLUID SP PRESAIR HPOX LOX
                                         TRAN ALERT Limited tran maintenance avbl Mon-Fri 1200-2100Z‡.
    Transient acft with inert ordnance, hot pit refuel limited to F18 and USAF F15, F16 and A10 acft only. Hot pit
    refuel with inert ordnance avbl Mon-Fri 1200-0300Z±, Sat-Sun 1700-0059Z±, No layatory syc avbl.
  MILITARY REMARKS: Opr 24 hrs expect; fld closure on National holiday weekends. See FLIP AP/1 Supplementary Arpt
    Remarks. RSTD ATC terminology "centermat" is defined as the center of the afld where the four rwys intersect.
    Rwy 23R LDA 7553, Rwy 32L LDA 7607. PPR all tran acft (min 24 hr in advance). Call Base OPS DSN
    582-2233, C252-466-2233. Flight Planning/Base OPS opr 24 hr. All rwy and twy, except Twy A, Twy C and Twy
    M will support all acft at all weight. Twy H limited to helicopters only between fuel pit 5 and Twy J. Acft rstd from
    taxiing on Twy K between Rwy 23R and Test Cell. Towing ops only. CAUTION Unlit twr at NKT 200006 549'.
    Extensive student jet training vertical and short take-off and landing aircraft vicinity of arpt. Tran acft expect
    straight-in full stop Idg only during peak student training periods. Bird hazard Oct-Apr. Drainage ditches parallel
    all rwy. Wildlife hazard on arpt, especially SS-SR. Obstruction approximately 200' near NKT R-205/3. TFC PAT
    Ldg/taxi lgt rgr all ldg. Reduced rwy separation in effect for USN/USMC acft. CSTMS/AG/IMG CSTMS, AG avbl with
    24 hr prior notice. Reference Foreign Clearance Guide for details. MISC 24 hr prior notice rgr of all distinguished
    visitor codes, ctc Base OPS DSN 582-2233, C252-466-2233. All acft with passenger/cargo/distinguished
    visitor ctc PTD 20 min prior to ldg.
  COMMUNICATIONS: SFA
                      ATIS 127.475 244.875
 R APP/DEP CON 119.35 377.175 (West) 124.1 268.7 (East abv 2600') 132.575 299.6 (East at/blo 2600') 119.75
      360.775 (North)
    TOWER 121.3 340.2 360.2 (Expect fld closure on National holiday weekends) GND CON 128.625 239.025
      CLNC DEL 125.95 316.125 PMSV METRO 343.5 BASE OPS 126.2 305.7
  AIRSPACE: CLASS D syc continuous, expect fld closure on National holiday weekends.
  RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.
    (L) TACAN
              Chan 75 NKT (112.8) N34°54.13′ W76°52.49′ at fld. 28/9W.
      TACAN azimuth unusable:
        052°-060° byd 10 NM blo 3,000′
        061°-089° byd 6 NM blo 5,000′
        090°-109° bvd 10 NM blo 3.000'
    ILS/DME 108.9 I-NKT Chan 26 Rwy 23R. GS unusable byd 6° left of course.
    ASR/PAR
  COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima.
CHOCOWINITY N35°30.58′ W77°06.40′
                                         NOTAM FILE OCW
                                                                                                     CHARLOTTE
  NDB (MHW) 388 RNW 044° 4.6 NM to Warren Fld.
                                                                                                         L-35C
CITY LAKE N35°42.98′ W79°51.92′ NOTAM FILE HBI.
                                                                                                     CHARLOTTE
  NDB (MHW) 266 CO.L
                       209° 4 NM to Asheboro Rgnl.
                                                                                                     1-25F 36F
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CLINTON N34°58.53′ W78°21.78′ NOTAM FILE CTZ. NDB (MHW) 412 CTZ at Sampson Co. CHARLOTTE L-35B, 36F

CHARL OTTE

H-9C, 12G, L-35B, 36F

CLINTON

SAMPSON CO (CTZ) 2 SW UTC-5(-4DT) N34°58.50′ W78°21.94′

148 B S4 **FUEL** 100LL, JET A1+ NOTAM FILE CTZ **RWY 06-24**: H5000X75 (ASPH) S-26 MIRL 0.3% up NE

RWY 06: REIL. PAPI(P2L)—GA 3.0° TCH 39'.Trees.

RWY 24: REIL. Trees.

AIRPORT REMARKS: Attended Mon-Sat 1330Z‡-dusk, Sun

1800Z‡-dusk. For arpt attendant after hrs call 910–214–6019. Rwys 06 and 24 have a 40' dropoff 200' from both thids on extended centerline. 50' trees 300' from CL penetrate transitional sfc NW side of rwy from Rwy 24 apch sfc to Rwy 06 thid. ACTIVATE

MIRL Rwy 06–24, REIL Rwy 06 and Rwy 24 and PAPI Rwy 06—CTAF. Rwy 06 PAPI 0TS indef.

WEATHER DATA SOURCES: AWOS-3 119.125 (910) 592-7488.
COMMUNICATIONS: CTAF/UNICOM 122.8

R FAYETTEVILLE APP/DEP CON 133.0

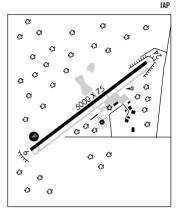
RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13′ W78°52.50′ 095° 25.1 NM to fld. 179/04W.

CLINTON NDB (MHW) 412 CTZ N34°58.53′ W78°21.78′

fld. NOTAM FILE CTZ.

ILS 109.7 I–SGO Rwy 06. LOC only. Localizer unusable inside 1.2 NM from thId and byd 25° rgt of centerline.



COASTAL CAROLINA RGNL (See NEW BERN)

COFIELD N36°22.37′ W76°52.29′ NOTAM FILE RDU.

(L) VORTAC 114.6 CVI Chan 93 262° 15.3 to Tri-County. 70/09W.

RC0 122.1R 114.6T (RALEIGH RADIO)

CHARLOTTE H-9C. L-35C. 36H

COLUMBUS CO MUNI (See WHITEVILLE)

CONCORD RGNL (JQF) 7 W UTC-5(-4DT) N35°23.27′ W80°42.55′

705 B S4 **FUEL** 100LL, JET A, A1+ OX 3 ARFF Index—See Remarks NOTAM FILE JOF

CHARLOTTE H-9B, 12G, L-25D, 36E

IAP, AD

RWY 02-20: H7400X100 (ASPH) D-72 HIRL 0.9% up N

RWY 02: REIL. PAPI(P4L)—GA 3.0° TCH 60'. Trees.

RWY 20: MALSR. PAPI(P4L)-GA 3.0° TCH 44'. Thid dsplcd 650'. Trees.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 02: TORA-7400 TODA-7400 ASDA-7400 LDA-7400

RWY 20: TORA-7400 TODA-7400 ASDA-7000 LDA-6350

AIRPORT REMARKS: Attended continuously. Class IV, ARFF Index A. Index C ARFF equipment avbl upon req. When two clsd HIRL Rwy 02–20 and REIL Rwy 20 preset low ints. ACTIVATE MALSR Rwy 20—CTAF.

WEATHER DATA SOURCES: AWOS-3 133.675 (704) 785-2145.

COMMUNICATIONS: CTAF 134.65 UNICOM 122.95

(R) CHARLOTTE APP/DEP CON 128.32 CLNC DEL 127.25

TOWER 134.65 (1200-0400Z‡) GND CON 121.85 CLNC DEL 118.55

AIRSPACE: CLASS D svc 1200-0400Z tother times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE CLT.

CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 N35°11.42′ W80°57.11′ 050° 16.8 NM to fld. 732/05W. HIWAS.

 $\textbf{ILS/DME} \ 111.95 \hspace{0.5cm} \text{I-JQF} \hspace{0.5cm} \text{Chan} \ 56(Y) \hspace{0.5cm} \text{Rwy} \ 20. \ \text{LOC} \ \text{unusable byd} \ 30^{\circ} \ \text{right of centerline}. \ \text{Unmonitored}.$

CUNNINGHAM FLD (See CHERRY POINT MCAS)

CURRITUCK CO RGNL (ONX) 4 S UTC-5(-4DT) N36°24.00' W76°00.93' 18 B S2 FUEL 100LL, JET A1+ TPA—818(800) NOTAM FILE ONX

RWY 05-23: H5500X150 (ASPH-CONC) S-20, D-35 MIRL

RWY 05: REIL. PAPI(P2L)-GA 3.0° TCH 24'.

RWY 23: REIL. PAPI(P2L)—GA 3.0° TCH 41'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡, Sat-Sun

1300–2000Z‡. CLOSED on all state holidays. After hrs svc call 252–232–3330. Currituck County emergency number communication center 252–232–2216. Fuel avbl 24 hrs with

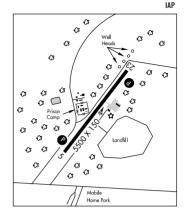
communication center 252–232–2216. Fuel avbl 24 hrs with credit card. Birds and deer on and invof arpt. Hang glider activity SR-SS. ACTIVATE MIRL Rwy 05–23 and PAPI Rwy 05 and Rwy 23 and REIL Rwy 05 and Rwy 23 after SS—CTAF. PAPI Rwy 05 and Rwy 23 opr continuously during daylight hrs.

WEATHER DATA SOURCES: AWOS-3 119.775 (252) 453-8939. **COMMUNICATIONS: CTAF** 122.9

R OCEANA APP/DEP CON 123.9

RADIO AIDS TO NAVIGATION: NOTAM FILE ECG.

ELIZABETH CITY (L) VOR/DME 112.5 ECG Chan 72 N36°15.46′ W76°10.54′ 049° 11.5 NM to fld. 10/07W. **HIWAS**.



WASHINGTON

H-9C, 12H, L-35D

CURTIS L BROWN JR FIELD (See ELIZABETHTOWN)

DARE CO RGNL (See MANTEO)

DAVIDSON CO (See LEXINGTON)

DIXON N34°34.11′ W77°27.18′ NOTAM FILE RDU.

NDB/DME (HHW) 198 DIW Chan 107 015° 8 NM to New River MCAS. DME portion unusable byd 40 NM blo 16.500'.

DONALD'S AIR PARK INC (See PLYMOUTH)

DOONE N34°54.75′ W78°56.38′ NOTAM FILE FAY.

NDB (LOM) 367 GR 039° 5.6 NM to Fayetteville Rgnl/Grannis Fld.

DS BUTLER FARM AND AIRFIELD (See OAKRIDGE)

DUPLIN CO (See KENANSVILLE)

EAGLES NEST (See POTTERS HILL)

EDEN

ROCKINGHAM CO HELIPORT (8NØ) O N UTC-5(-4DT) N36°29.64′ W79°44.39′

605 B NOTAM FILE RDU

HELIPAD H1: H60X60 (CONC)

HELIPAD H1: VASI(NSTD)-TCH 7'.

HELIPORT REMARKS: Unattended. Numerous +30' light poles in parking lot. +30' antenna on top of hospital (100' AGL) 300' NE of pad. Parking area NW of ldg pad; +4' perimeter fence within 13' of heliport–SW corner. Rotating bon located on hospital roof 300' NE of ldg pad. Helipad H1 25' p-line 200' W of helipad. ACTIVATE perimeter lgts and VASI Rwy H1_CTAF. LDIN lgts opr dusk-dawn.

COMMUNICATIONS: CTAF/UNICOM 123.05

EDENTON N36°01.53′ W76°33.99′ NOTAM FILE EDE.

NDB (MHW) 265 EDE at Northeastern Rgnl. NDB unusable byd 15 NM.

WASHINGTON L-35C

CHARLOTTE

H-9C, L-35B

CHARLOTTE

CINCINNATI

WASHINGTON

H-9C. 12H. L-35C

EDENTON

NORTHEASTERN RGNL (EDE) 3 SE UTC-5(-4DT) N36°01.66′ W76°34.03′

20 B S4 **FUEL** 100LL, JET A1+ NOTAM FILE EDE **RWY 01-19**: H6000X100 (ASPH) S-60, D-80 MIRL

RWY 01: REIL. PAPI(P2L)—GA 3.0° TCH 39'. Trees.

RWY 19: REIL. PAPI(P2L)—GA 3.0° TCH 41'. Trees.

AIRPORT REMARKS: Attended 1300–2200Z‡. For after hrs svc call 252–217–4975. After hr self svc fuel for 100LL and JET A1+ avbl with credit card. Seasonal problem with birds and deer on and invof and Types serving Rwy 01–19 have green centerline.

invof arpt. Twys serving Rwy 01–19 have green centerline reflectors. PAPI Rwys 01 and 19 ops continuously. ACTIVATE MIRL Rwy 01–19 and REIL Rwy 01 and Rwy 19—CTAF.

WEATHER DATA SOURCES: ${\tt AWOS-3}\ 121.125\ (252)\ 482-0757.$

COMMUNICATIONS: CTAF/UNICOM 123.0

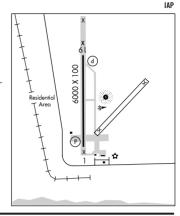
WASHINGTON CENTER APP/DEP CON 123.85

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

COFIELD (L) VORTAC 114.6 CVI Chan 93 N36°22.37′ W76°52.29′ 153° 25.4 NM to fld. 70/09W.

EDENTON NDB (MHW) 265 EDE N36°01.53′ W76°33.99′ at fld. NOTAM FILE EDE. NDB unusable byd 15 NM.

ILS/DME 110.95 I-EDE Chan 46(Y) Rwy 19.



ELIZABETH CITY CG AIR STATION/RGNL

(ECG) 3 SE UTC-5(-4DT)

WASHINGTON H-9C. 12H. L-35D

ΙΔΡ ΔΠ

N36°15.63′ W76°10.47′

12 B S4 FUEL 100LL, JET A1+ TPA—See Remarks NOTAM FILE ECG

RWY 10-28: H7219X150 (CONC) S-100, D-200, ST-175, TT-400 HIRL CL

RWY 10: TDZL. REIL. PAPI(P2L)—GA 3.0° TCH 49'. Road. Rgt tfc. RWY 28: REIL. PAPI(P2L)—GA 3.0° TCH 51'. Tree.

RWY 01-19: H4518X150 (ASPH-CONC) S-20 MIRL

RWY 01: VASI(V4L)—GA 2.75° TCH 31'. Thid dsplcd 299'. Road. Rgt tfc.

RWY 19: VASI(V4L)-GA 2.75° TCH 28'. Rgt tfc.

AIRPORT REMARKS: Attended Mon-Fri 1300–0200Z‡, Sat-Sun 1300–2200Z‡. Terminal CLOSED Christmas Day and New Years Day. Twr attended 1300–0200Z‡. Civ ramp attended Mon-Fri 1300–0200Z‡, Sat-Sun 1300–2200Z‡. For civ attendant after hrs and holidays call 252–335–6634 during hrs attended. CG ramp attended 24 hrs, ctc 252–335–6333. CG Aviation Logistic Center ramp attended 1200–2000Z‡. Twr and Civ ramp attended 1200–0300Z‡. See FLIP AP/1 supplementary Arpt Info. Fuel 24 hr self svc with credit card. Heavy bird activity invof arpt. Intermittent tethered balloon ops 3 NM SE dalgt hrs at 3000 ft. Rwy 01–19 and Twy G west of the civil ramp CLOSED to all ops over 12,500



lbs. Vertical tkf and landing only for copters over 12,500 lbs. Rwy 01-19 loose gravel, pavement cracks, vegetation. Acft with tail heights to 50' parked on apron first 2000' from Rwv 28 right side 250' from rwv centerline. TPA-Fixed Wing 1512(1500), Rotary Wing 1012(1000). All DOD turbojet acft must obtain prior permission from air station ops prior to requesting arpt familiarization apchs. SP LHOX OIL: 0-133-156 Tran Alert-No tran maintenance, Itd svc. expect up to 4 hr delay for fuel. Tran air carrier must remain with acft to provide directions/assistance in servicing. All DOD turbojet acft full stop Idgs only, practice apchs and touch and go Idgs prohibited, PPR for parking and sycs on Coast Guard Ramp and Aviation Logistic Center (ALC) ramp. Coast Guard complex has numerous buildings within the building restriction lines. Compass rose for Coast Guard use only. Noise Abatement in effect: call afld management for details at 252-335-6333. Blimp opr and training site 3 NM southeast of fld-flight opr conducted in surrounding area. Seasonal low-flying agricultural acft based in the local area. No line-of-sight between rwy ends. Search and Rescue may rqr 24 hr twr staff 0200-1300Z‡, trans intentions in the blind on 120.5. Facilities and connector twys north of Rwy 10-28 restricted to official CG business, PPR for entry. Twy pavement rough. All acft destined for CG Air Station ctc Elizabeth City air on 345.0, 10 min prior to ldg. All acft destined for CG ALC ctc Flt Ops 123.1. When twr is clsd centerline Igts and VASI Rwy 10 and Rwy 28 opr continuously. ACTIVATE HIRL Rwy 10-28 and MIRL Rwy 01-19 -CTAF

WEATHER DATA SOURCES: ASOS 118.525 (252) 338-4750. HIWAS 112.5 ECG.

COMMUNICATIONS: CTAF 120.5 UNICOM 122.95

RCO 122.2 122.05R 112.5T (RALEIGH RADIO)

R NORFOLK APP/DEP CON 119.55

TOWER 120.5 (1300-0200Z‡) GND CON 121.9

AIRSPACE: CLASS D svc 1300-0200Z‡ other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE ECG.

(L) VOR/DME 112.5 ECG Chan 72 N36°15.46′ W76°10.54′ at fld. 10/07W. HIWAS.

WOODVILLE NDB (MHW) 254 LLW N36°15.78′ W76°17.88′ 101° 6 NM to fld.

ILS/DME 111.35 I-EPR Chan 50(Y) Rwy 10. Class IE.

COMM/NAV/WEATHER REMARKS: 24 hr search and rescue acft ops may rqr twr to be staffed 0300–1200Z‡, transmit intentions in the blind on 120.5.

CHARLOTTE

L-35A. 36F

FI 17ABFTHTOWN

CURTIS L BROWN JR FIELD (EYF) 2 SE UTC-5(-4DT) N34°36.11′ W78°34.76′ 131 B S2 FUEL 100LL. JET A1+ NOTAM FILE RDU

RWY 15-33: H4998X75 (ASPH) S-30, D-45 MIRL

RWY 15: PAPI(P2L)-GA 4.2° TCH 45'.

RWY 33: REIL. PAPI(P2L)-GA 3.0° TCH 33'.

AIRPORT REMARKS: Attended Mon-Sat 1300-2330Z‡, Sun

1330–2330Z‡. For svc after hrs and emergencies call 910–862–8928. Fuel avbl 24 hrs with credit card. Deer on and invof arpt. Birds on and invof arpt spring and fall. Low level military activity invof arpt. Arpt bcn is obscured by trees to the east. ACTIVATE MIRL Rwy 15–33; PAPI Rwy 15 and Rwy 33 and RFII Rwy 33—CTAF

WEATHER DATA SOURCES: AWOS-3 119.475 (910) 862-9982.

COMMUNICATIONS: CTAF/UNICOM 122.8

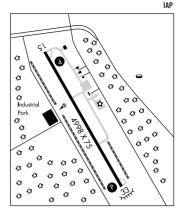
FAYETTEVILLE APP/DEP CON 133.0

RADIO ADIS TO NAVIGATION: NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13′ W78°52.50′ 151° 27.2 to fld. 179/04W.

ELIZABETHTOWN NDB (MHW) 398 TGQ N34°31.73'

W78°30.95' 332° 5.4 NM to fld. NOTAM FILE RDU.



CHARLOTTE L-35A

CINCINNATI

L-25D

ELIZABETHTOWN N34°31.73′ W78°30.95′ NOTAM FILE RDU.

NDB (MHW) 398 TGQ 332° 5.4 NM to Curtis L Brown Jr Fid.

ELKIN MUNI (ZEF) 3 NE UTC-5(-4DT) N36°16.80′ W80°47.16′ 1068 B S2 **FUEL** 100LL. JET A1+ TPA—2068(1000) NOTAM FILE RDU

RWY 07-25: H4003X75 (ASPH) S-25 MIRL 0.7% up W

RWY 07: VASI(V2L)—GA 3.5° TCH 19'. Tree.

RWY 25: REIL. VASI(V2L)-GA 4.5° TCH 66'. Tree.

AIRPORT REMARKS: Attended 1400–2200Z‡. For svc after hrs call 336–874–7171, 336–874–2931, 336–366–7994 or 336–926–6243. Fuel 24 hr self svc with credit card. Trees and steep terrain within 75' of rwy. Deer on and invof arpt. Rwy 25 has an uphill grade. Rwy 07 and Rwy 25 VASI opr continuously. Rwy 25 VASI unusable byd 5° left and right of centerline due to trees.

ACTIVATE MIRL Rwy 07-25 and REIL Rwy 25-CTAF.

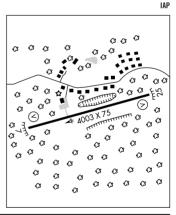
COMMUNICATIONS: CTAF/UNICOM 123.05

R ATLANTA CENTER APP/DEP CON 125.15

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

BARRETTS MOUNTAIN (L) VOR/DME 110.8 BZM Chan 45

3.6 NM to fld



ELLAS N34°45.03′ W77°42.27′ NOTAM FILE OAJ.

NDB (LOM) 261 OA 052° 6.6 NM to Albert J. Ellis, Unmonitored.

CHARLOTTE

ENGELHARD

HYDE CO (7W6) 6 N UTC-5(-4DT) N35°33.74′ W75°57.31′

CHARLOTTE L-35C

8 B NOTAM FILE RDU

RWY 11-29: H4700X100 (ASPH-GRVD) S-30, D-43 MIRL

RWY 11: PAPI(P2L)—GA 3.0°TCH 34'. Rgt tfc. RWY 29: PAPI(P2L)—GA 3.0°TCH 34'. Trees.

AIRPORT REMARKS: Unattended. R5313 5 miles E of arpt and R5314 5 miles N of arpt have heavy concentrations of military acft within 1000' AGL and in excess of 500 knots, acft maneuvering for Idg and after tkf should remain over land E of airport. Deer and birds on and invof arpt. ACTIVATE MIRL Rwy 11–29—CTAF. PAPI Rwy 11 and Rwy 29 on continuously.

COMMUNICATIONS: CTAF/UNICOM 122.7

RADIO AIDS TO NAVIGATION: NOTAM FILE ISO.

KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26' W77°33.50' 086° 79.0 NM to fld. 106/05W.

ERWIN

HARNETT RGNL JETPORT (HRJ) 4 NW UTC-5(-4DT) N35°22.81′ W78°43.93′

202 B S4 FUEL 100LL. JET A1+ NOTAM FILE HRJ

RWY 05-23: H5000X75 (ASPH) S-13 MIRL 0.3% up NE

RWY 05: REIL. PAPI(P2L)-GA 3.0° TCH 35'.

RWY 23: REIL. PAPI(P2L)-GA 3.0° TCH 35'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2300Z‡, Sat-Sun

1400-2200Z‡. For svc after hrs see telephone number posted on FBO door. Fuel self syc with credit card. Birds on and invof arpt. Glider activity dalgt hrs; gliders only may use rgt tfc. Gliders use grass area adjacent Rwy 05-23 for ldg. Ultralight airpark 2 NM S.E. Heavy amounts ultralight to 1000' MSL mainly weekends extending into Harnett Rgnl Jetport tfc pattern. Rwy 05, 60' drop off 350' from thid and Rwy 23, 15' drop off 70' left of centerline. Arpt located 18 NM NE of Pope AFB: Heavy amounts of military tfc as low as 500' AGL overhead Harnett Rgnl Jetport, Rotating bon obscured by trees N and W of arpt. ACTIVATE MIRL Rwv 05-23 and REIL Rwy 05 and Rwy 23-CTAF. PAPI Rwy 05 and Rwy 23 opr continuously. REIL Rwy 05 OTS indef. REIL Rwy 23 OTS indef.

WEATHER DATA SOURCES: AWOS-3 119.025 (910) 814-3946.

COMMUNICATIONS: CTAF/UNICOM 122.7

(R) FAYETTEVILLE APP/DEP CON 125.175

GCO 135.075 (FAYETTEVILLE CLNC and FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13′ W78°52.50′ 021° 24.7 NM to fld. 179/04W. NDB(MHW) 417 HQT N35°25.99′ W78°40.50′ 230° 4.2 NM to fld. NOTAM FILE HRJ.

LOC/DME 108.35 I-HRJ Chan 20(Y) Rwy 05.

FARMVILLE

FLANAGAN FLD (NØ8) 3 SE UTC-5(-4DT) N35°33.40′ W77°33.63′

CHARLOTTE

CHARL OTTE

ΙΔΡ

H-9C. 12G. L-35B. 36F

75 FUEL 100LL NOTAM FILE RDU

RWY 03-21: 2500X100 (TURF)

RWY 03: Trees. RWY 21: Thid dsplcd 300'. Trees.

AIRPORT REMARKS: Unattended. Glider ops invof arpt. Aerial banner towing and aerial crop spraying invof of arpt. Livestock and wildlife invof arpt, +4' fence/brush along hwy northeast end Rwy 21, Rwy 21 no dsplcd thld markings. Rwy 03-21 marked with yellow cones.

COMMUNICATIONS: CTAF 122.9

CHARL OTTE

IAP, AD

H-9C. 12G. L-35A. 36F

FAYETTEVILLE

FAYETTEVILLE RGNL/GRANNIS FLD (FAY) 3 S UTC-5(-4DT)

N34°59.47′ W78°52.82′

189 B S4 FUEL 100LL, JET A Class I, ARFF Index B NOTAM FILE FAY RWY 04-22: H7709X150 (ASPH-GRVD) S-100, D-200, ST-175.

DT-350, DDT-750 HIRL 0.3% up SW

RWY 04: MALSR. PAPI (P4R)—GA 3.0° TCH 60'. Thid dsplcd 499'.

RWY 22: REIL. VASI(V4L)-GA 3.0° TCH 60'. Thid dsplcd 302'.

RWY 10-28: H4801X150 (ASPH) S-30, D-55 RWY 10: REIL. Trees.

RWY 28: REIL. PAPI(P4L)-GA 3.0°TCH 35'. Trees.

RUNWAY DECLARED DISTANCE INFORMATION

TORA-7712 TODA-7712 ASDA-7006 LDA-6507 RWY 22-

TORA-7712 TODA-7712 ASDA-7213 LDA-6507 AIRPORT REMARKS: Attended 1100-0500Z±. CLOSED to all military acft over 17,000 lbs for air carrier ramp ops except 24 hr PPR, Call arpt manager 910-433-1160 Mon-Fri. Major power plant repairs avbl for piston engines only.

WEATHER DATA SOURCES: ASOS (910) 484-1546. LAWRS.

COMMUNICATIONS: ATIS 121.25 UNICOM 122.95

RCO 122.1R 108.8T (RALEIGH RADIO)

R APP/DEP CON 133.0 (061°-230°) 127.8 (231°-320°) 125.175 (321°-060°)

TOWER 118.3 GND CON 121.7

AIRSPACE: CLASS C svc continuously ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

(L) VOR/DME 108.8 FAY Chan 25 N34°59.13′ W78°52.50′ at fld. 179/04W.

DOONE NDB (LOM) 367 GR N34°54.75′ W78°56.38′ 039° 5.6 NM to fld.

ILS 110.5 I-GRA RWY 04. Class IB. LOM DOONE NDB. ILS unmonitored when twr clsd. Glideslope unusable byd 3° rgt of course.

GRAYS CREEK (2GC) 9S UTC-5(-4DT) N34°53.62′ W78°50.61′

160 S4 FUEL 100LL NOTAM FILE RDU

RWY 17-35: H3500X30 (ASPH) S-8 LIRL(NSTD)

RWY 35: Thid dsplcd 350'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡. Weekends by appointment only, 40' unmarked p-line 800' from dsplcd thld Rwy 35. Rwy 17-35 NSTD LIRL first 350' Rwy 35 not lgtd. For LIRL Rwy 17-35 call 910-483-4114. Rwy 17-35 lgtd thid relocated 350'; 3150' of Rwy 17-35 usable at ngt. Taxi on the grass apron at a slow speed due to uneven sod surface.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13' W78°52.50' 168° 5.7 NM to fld. 179/04W.

4801 X 150

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FIDDLERS N35°42.61′ W81°40.28′ NOTAM FILE RDU.

ATLANTA

CHARLOTTE

L-35A. 36F

NDB (MHW) 391 FIQ 031° 7.2 NM to Foothills Rgnl. NDB unusable byd 20 NM. NDB located 41,900′ from threshold Rwv 03 and 400' SE of extended centerline. 1-25C

FIRST FLIGHT (See KILL DEVIL HILLS)

FIRST RIVER N35°15.16′ W81°35.93′ NOTAM FILE RDU.

CHARLOTTE

NDB (MHW) 417 SLP at Shelby-Cleveland Co Rgnl L-25D

FLANAGAN FLD (See FARMVILLE)

FOOTHILLS RGNL (See MORGANTON)

FORT BRAGG (See SIMMONS AAF)

FRANKLIN

MACON CO (1A5) 3 NW UTC-5(-4DT) N35°13.36′ W83°25.14′

2020 B S4 FUEL 100LL JET A1+ TPA-2800(780) NOTAM FILE RDU

RWY 07-25: H4400X75 (ASPH) S-30 MIRI

RWY 07: Trees. RWY 25: Brush. Rgt tfc.

AIRPORT REMARKS: Attended 1300Z±-dusk, Rapidly rising terrain all quadrants. Rwy 07-25 has severe cracks and vegetation through cracks and joints. Rwy 25 has a 15 ft drop off 350 ft from thId left and right. MIRL Rwy 07-25 on dusk-dawn to incr ints-CTAF. Arpt bcn located 3/4 mile SE of arpt.

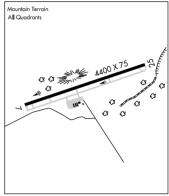
WEATHER DATA SOURCES: AWOS-3 118,225 (828) 349-3156.

COMMUNICATIONS: CTAF/UNICOM 123.05

ATLANTA CENTER APP/DEP CON 134 8

RADIO AIDS TO NAVIGATION: NOTAM FILE MCN.

HARRIS (L) VORTACW 109.8 HRS Chan 35 N34°56.58' W83°54.94' 055° 29.6 NM to fld. 3660/00E. HIWAS.



ATLANTA

CHARLOTTE L-25D, 36E

IAP

L-25B

IAP

FRANKLIN CO (See LOUISBURG)

GASTONIA MUNI (AKH) 4 S UTC-5(-4DT) N35°12.16′ W81°08.99′

798 B S4 FUEL 100LL, JET A1 NOTAM FILE AKH RWY 03-21: H3770X100 (ASPH) S-24 MIRL 0.4% up SW

RWY 03: ODALS. PAPI(P2R)-GA 3.0°TCH 26'. Road.

RWY 21: PAPI(P2L)—GA 3.0°TCH 31'. Thid dsplcd 90'. Trees. AIRPORT REMARKS: Attended Mon-Sat 1300-2200Z‡, Sun

1600-2200Z‡. CLOSED Christmas Day. For svc after hrs call 704-460-5619. Deer on and invof arpt. Parallel twy unlgtd. Noise abatement: from 0300-1100Z‡ pilots are requested to use Rwy 21 as calm wind dep rwy and do runups on ramp; not rwy end. To avoid low altitude turns to the W reg clnc thru CLASS B airspace from Charlotte apch. Rwy 03 has 25' p-line 400' from thld left and right of centerline. 15' road 292' from thid left and right of centerline. 50' drop-off 124' from dsplcd thld left and right of centerline, ACTIVATE MIRL Rwv 03-21, ODALS Rwv 03 and PAPI Rwy 03 and PAPI Rwy 21-CTAF.

WEATHER DATA SOURCES: ASOS 135.725 (704) 868-9034.

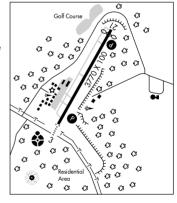
COMMUNICATIONS: CTAF/UNICOM 123.0

R CHARLOTTE APP/DEP CON 134.75 CLNC DEL 127.2 RADIO AIDS TO NAVIGATION: NOTAM FILE CLT.

CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 N35°11.42' 279° 9.8 NM to fld. 732/05W. HIWAS. W80°57.11'

STONIA NDB (MHW) 260 GHJ N35°11.48′ W81°09.43′ at fld. NOTAM FILE RDU.

COMM/NAV/WEATHER REMARKS: NDB unmonitored 2330-1130Z during standard time, 2330-1030Z during daylight savings time. Clnc Del freq 127.2 OTS indef.



GOLDSBORO-WAYNE MUNI (GWW) 3 N UTC-5(-4DT) N35°27.63' W77°57.90' 134 B S4 **FUEL** 100LL, JET A1+ OX 1, 4 NOTAM FILE GWW

RWY 05-23: H5499X99 (ASPH) S-30, D-42 PCN 49 F/C/Y/T MIRL

CHARLOTTE H-9C, 12H, L-35B, 36F

RWY 05: PAPI(P4L)-GA 3.0° TCH 40'.

RWY 23: ODALS. REIL. PAPI(P4L)—GA 3.0° TCH 43'.

AIRPORT REMARKS: Attended 1300–0100Z‡. Unattended Christmas and Thanksgiving. Bird activity invof arpt. Helicopter ops on twy leading to T hangers. Helipad on twy with traffic cones and flags. Surface variations in rwy safety area. Ultralgt aircraft PPR call 919–734–7630. ACTIVATE MIRL Rwy 05–23, REIL Rwy 23, and ODALS Rwy 23—CTAF; PAPI Rwy 05 and Rwy 23 opr continuously. WEATHER DATA SOURCES: AWOS–3 118.975 (919) 731–4473.

COMMUNICATIONS: CTAF/UNICOM 122.7

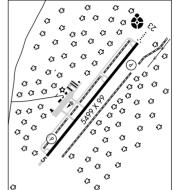
R SEYMOUR JOHNSON APP/DEP CON 123.7 (1200-0430Z‡)
WASHINGTON CENTER APP/DEP 135.5 (0430-1200Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE ISO.

KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26′

W77°33.50′ 290° 20.7 NM to fld. 106/05W.

WAYNE NDB (MHW/LOM) 208 JYN N35°31.57′ W77°54.02′ 227° 5 NM to fld. NOTAM FILE RDU. NDB unmonitored. SHUTDOWN.
IL\$ 111.9 I–UGZ Rwy 23. Class IB. LOM WAYNE NDB. NDB unmonitored.



GOOSE CREEK (See INDIAN TRAIL)

GRAYS CREEK (See FAYETTEVILLE)

GREENSBORO N36°02.74′ W79°58.58′ NOTAM FILE GSO.

CINCINNATI

(H) VORTAC 116.2 GSO Chan 109 034° 3.7 NM to Piedmont Triad Intl. 879/03W. HIWAS.

H-9B, 12G, L-25E, 36F

RCO 123.65 122.2 122.1R 116.2T (RALEIGH RADIO)

GREENSBORO

AIR HARBOR (W88) 6 N UTC-5(-4DT) N36°10.42′ W79°48.18′

CINCINNATI

822 S4 **FUEL** 100LL NOTAM FILE RDU **RWY 09-27:** H2460X65 (ASPH-TURF) S-10 MIRL(NSTD)

RWY 09: Trees. RWY 27: Trees.

AIRPORT REMARKS: Attended 13002‡—dusk. Deer on and invof arpt. After hrs emerg call 336–288–8047. Rwy 09–27 north 25' width is asph. South 40' width is turf. Rwy 09–27 NSTD MIRL; edge Igts vary from 40'–70' from pavement south end, 8' from pavement north end. Rwy 09 trees located within 60' of paved edge left side. Rwy 09 has +60' dropoff 220' from thld. Rwy 27 has 8' dropoff 10' from thld, left and right. Rwy–09 ldg uphill. Grvl access road 60' from Rwy 27 end.

COMMUNICATIONS: CTAF/UNICOM 122.8

PIEDMONT TRIAD INTL (GSO) 7 W UTC-5(-4DT) N36°06.08′ W79°56.47′ 925 B S4 FUEL 100LL, JET A OX 1, 2 LRA Class I, ARFF Index C H-9B, 12G, L-25E, 36F NOTAM FILE GSO ΙΔΡ ΔΠ RWY 05R-23L: H10001X150 (ASPH-GRVD) S-124, D-170, ST-175, **63** DT-240 HIRL CL RWY 05R: MALSR. PAPI(P4L)—GA 3.0° TCH 68'. 0.3% down. RWY 23L: ALSF2. TDZL. PAPI(P4L). RWY 05L-23R: H9000X150 (ASPH) S-124, D-170, DT-240 HIRL RWY 05L: ALSF2. TDZL. PAPI(P4L)-GA 3.0° TCH 78'. RWY 23R: MALSR, TDZL, PAPI(P4L)-GA 3.0° TCH 69'. RWY 14-32: H6380X150 (ASPH-PFC) S-123, D-170, ST-175, DT-244 HIRL 0.4% up NW RWY 14: MALSR. RWY 32: REIL. VASI(V4L)-GA 3.0°TCH 53'. LAND AND HOLD SHORT OPERATIONS LANDING HOLD SHORT POINT DIST AVBL RWY 14 05R-23L 3450 RWY 231 14-32 9200 RUNWAY DECLARED DISTANCE INFORMATION RWY 05L: TORA-9000 TODA-9000 ASDA-9000 LDA-9000 RWY 05R: TORA-10001 TODA-10001 ASDA-10001 LDA-10001 RWY 14: TORA-6380 TODA-6380 ASDA-6380 LDA-6380 RWY 23L: TORA-10001 TODA-10001 ASDA-9601 LDA-9601 RWY 23R: TORA-9000 TODA-9000 ASDA-9000 LDA-9000 RWY 32: TORA-6380 TODA-6380 ASDA-6380 LDA-6380 AIRPORT REMARKS: Attended continuously, Rwy 32 Rwy Visual Range rollout avbl. MALSR Rwy 14 OTS indef. Flight Notification Service WEATHER DATA SOURCES: ASOS (336) 393-0168. HIWAS 116.2 GSO. WSP. COMMUNICATIONS: D-ATIS 128.55 UNICOM 122.95 (R) GREENSBORO APP/DEP CON 124.35 (250°-049°) 118.5 (050°-249°) TOWER 119.1 GND CON 121.9 CLNC DEL 121.75 AIRSPACE: CLASS C svc continuous etc APP CON RADIO AIDS TO NAVIGATION: NOTAM FILE GSO. GREENSBORO (H) VORTAC 116.2 GSO Chan 109 N36°02.74′ W79°58.58′ 030° 3.7 NM to fld. 879/03W. MARKY NDB (LOM) 254 GS N36°10.02′ W80°02.14′ 139° 6.0 NM to fld. Unmonitored. ILS 109.9 I-GSO Rwy 14. LOM MARKY NDB. LOM unmonitored. MM OTS indef. ILS 109.3 I-HIH Rwy 23L. Class IIE. ILS/DME 111.9 I-LZY Chan 56 Rwy 05R. Class IA. LOC unusable byd 30° right of course. ILS/DME 109.55 I-IDB Chan 32(Y) Rwy 23R.

SOUTHEAST GREENSBORO (3A4) 8 SE UTC-5(-4DT) N35°56.52′ W79°41.13′ 737 S4 NOTAM FILE RDU

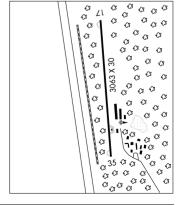
CHARLOTTE L-25E. 36F

RWY 17-35: H3063X30 (ASPH) S-8 MIRL RWY 17: Trees. RWY 35: Trees.

AIRPORT REMARKS: Attended 1200–2200Z‡. Parachute Jumping. Practice Idg on Rwy 35 not permitted. Rwy 17 uphill Idg preferred. Emergency ctc number 336–420–3776. Rwy 17–35 lights OTS indef

COMMUNICATIONS: CTAF/UNICOM 122.8
Radio aids to navigation: Notam file RDU.

LIBERTY (L) VORTAC 113.0 LIB Chan 77 N35°48.70′ W79°36.76′ 339° 8.6 NM to fld. 830/03W.



GREENVIIIF

PITT-GREENVILLE (PGV) 2 N UTC-5(-4DT) N35°38.12′ W77°23.12′

26 B S4 FUEL 100LL, JET A ARFF Index—See Remarks NOTAM FILE PGV

CHARL OTTE H-9C. 12H. L-35C IAP, AD

RWY 02-20: H6505X150 (ASPH-GRVD) S-40, D-65

RWY 02: REIL. PAPI(P4L)-GA 3.0° TCH 42'. Trees.

RWY 20: MALSR. PAPI(P4L)—GA 3.0°TCH 25'. Thid dspicd 350'.

RWY 08-26: H4997X150 (ASPH) S-40, D-65

RWY 08: REIL. PAPI(P4L)—GA 4.0° TCH 42'. Trees.

RWY 26: REIL. PAPI(P4L)-GA 3.0° TCH 31'. Pole.

RWY 15-33: H2687X150 (ASPH) S-40, D-65 RWY 15: Trees. RWY 33: Trees.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 02: TORA-6505 TODA-6505 ASDA-6505 LDA-6505 RWY 08: TORA-4997 TODA-4997 ASDA-4997 LDA-4997 RWY 15: TORA-2687 TODA-2687 ASDA-2687 LDA-2687 RWY 20: TORA-6505 TODA-6505 ASDA-6505 LDA-6157 RWY 26: TORA-4997 TODA-4997 ASDA-4997 LDA-4997 RWY 33: TORA-2687 TODA-2687 ASDA-2687 LDA-2687 AIRPORT REMARKS: Attended Mon-Fri 1030-0430Z±. Sat

1030-0300Z‡, Sun 1030-0430Z‡. Rwy 15-33 multiple large cracks in pavement. Grass growing out of cracks. Class I, ARFF Index B. CLOSED to unscheduled air carrier opr with more than 30

passenger seats except 24 hr PPR call arpt manager 252-758-4707. Index C ARFF equip avbl upon req. 24 hr helicopter ops at hospital 1.5 NM SSW of arpt; monitoring CTAF. Lgtd windsock OTS indef. Rwy 15-33 non-acr acft only. ACTIVATE MIRL Rwy 08-26, HIRL Rwy 02-20 and MALSR Rwy 20-CTAF. PAPI Rwy 02, Rwy 20, Rwy 08 and Rwy 26 opr continuous.

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WEATHER DATA SOURCES: AWOS-3 128.425 (252) 758-6485.

COMMUNICATIONS: CTAF/UNICOM 122.8

RCO 122.35 (RALEIGH RADIO)

R WASHINGTON CENTER APP/DEP CON 135.5

CLNC DEL 122.35 (RALEIGH RADIO)

AIRSPACE: CLASS E svc 1100-0500Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

TAR RIVER (L) VORTAC 117.8 TYI Chan 125 N35°58.61′ W77°42.23′ 148° 25.7 NM to fld. 70/05W.

ALWOOD NDB (MHW) 230 AQE N35°42.41′ W77°22.31′ 198° 4.3 NM to fld. NOTAM FILE PGV.

ILS/DME 110.7 I-PGV Chan 44. Rwy 20. Class IB. LOC unmonitored 0430-1100Z‡. DME unmonitored. GS unmonitored.

GREON N35°47.82′ W78°52.98′ NOTAM FILE RDU.

NDB (LOM) 382 RD 051° 6.7 NM to Raleigh-Durham Intl. (Unmonitored)

CHARLOTTE

HALIFAX CO (See ROANOKE RAPIDS)

HALIFAX-NORTHAMPTON RGNL (See ROANOKE RAPIDS)

HARNETT RGNL JETPORT (See ERWIN)

HATTERAS

BILLY MITCHELL (HSE) 4 E UTC-5(-4DT) N35°13.97′ W75°37.07′

17 NOTAM FILE HSE

RWY 07-25: H3000X75 (ASPH) S-30

RWY 07: Brush. RWY 25: Tree.

AIRPORT REMARKS: Unattended. Arpt CLOSED 30 minutes after SS until 30 minutes before SR. All ngt time ops prohibited. Flocks of seagulls on and invof arpt. High speed-low level military ops invof arpt, Arpt is within Cape Hatteras National Seashore, Maintain 2000 ft vertical and horizontal distance from seashore beaches. Additional acft parking avbl on N apron.

WEATHER DATA SOURCES: ASOS 118.375 (252) 995-3646.

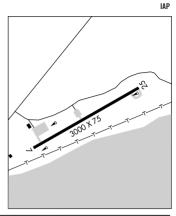
COMMUNICATIONS: CTAF 122.9

HATTERAS RCO 122.3 (RALEIGH RADIO)

CHERRY POINT APP/DEP CON 119.75 (North)

RADIO AIDS TO NAVIGATION: NOTAM FILE ECG. ELIZABETH CITY (L) VOR/DME 112.5 ECG Chan 72 N36°15.46' W76°10.54′ 163° 67.2 NM to fld. 10/07W.

HIWAS.



HATTERAS N35°14.01′ W75°37.06′

RCO 122.3 (RALEIGH RADIO) at Billy Mitchell.

CHARLOTTE L-35C

CHARLOTTE

L-35C

HENDERSON FLD (See WALLACE)

HENDERSON-OXFORD (See OXFORD)

HENDERSONVILLE (ØA7) 2 E UTC-5(-4DT) N35°18.46′ W82°25.99′

ATLANTA L-25C

RWY 15-33: H3075X40 (ASPH) S-10 LIRL

S4 FUEL 100LL NOTAM FILE RDU

RWY 15: Thid dspicd 270', Trees. RWY 33: Thid dspicd 325', Road.

AIRPORT REMARKS: Attended continuously. For svc after hrs call 828-693-1897. Acft parked 40' from edge of Rwy 15-33 S end. ACTIVATE LIRL Rwy 15-33—CTAF. Ldg fee. \$10.00 fee for acft over 6000 lbs or turbine.

COMMUNICATIONS: CTAF/UNICOM 123.0

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

SUGARLOAF MOUNTAIN (L) VORTAC 112.2 SUG Chan 59 N35°24.39′ W82°16.12′ 236° 10 NM to fld. 3970/02W.

HIATT (See THOMASVILLE)

HICKORY

HICKORY RGNL (HKY) 3 W UTC-5(-4DT) N35°44.47′ W81°23.37′

1190 B S4 FUEL 100LL, JET A Class I, ARFF Index A NOTAM FILE HKY RWY 06-24: H6400X150 (ASPH-GRVD) S-32, D-55 HIRL 0.8% up NE

CHARL OTTE H-9B. 12G. L-25D IAP, AD

GGG.

RWY 06: REIL. VASI(V4L)-GA 3.0° TCH 49'. Trees.

RWY 24: MALSR, PAPI(P4L)-GA 3.0° TCH 54'.

RWY 01-19: H4400X150 (ASPH) S-30, D-40 MIRL 0.6% up N RWY 01: REIL. PAPI(P4L). Tree.

RWY 19: REIL. VASI(V4R)-GA 3.0° TCH 32'.

AIRPORT REMARKS: Attended continuously. Limited svcs avbl 0400-1100Z‡. Tkf Rwy 19 prohibited when twr closed. No practice IFR apchs between 2100-0000Z±, CLOSED to unscheduled air carrier opr with more than 30 passenger seats except 24 hr PPR call arpt manager 828-323-7408. No line of sight between Rwv 19 and Rwv 24, ACTIVATE HIRL Rwv 06-24. MIRL Rwy 01-19, PAPI Rwy 24, REIL Rwy 01 and MALSR Rwy 24-CTAF (0400-1200Z±).

WEATHER DATA SOURCES: ASOS 118.325 (828) 322-2996.

COMMUNICATIONS: CTAF 128.15

RCO 122.6 122.2 (RALEIGH RADIO)

R ATLANTA CENTER APP/DEP CON 125.15 CLNC DEL 124.25 (When twr

TOWER 128.15 (1200-0400Z±) GND CON 121.7

CLNC DEL 121.7

AIRSPACE: CLASS D svc 1200-0400Z± other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

BARRETTS MOUNTAIN (L) VOR/DME 110.8 BZM Chan 45 N35°52.13' W81°14.43' 230°10.6 NM to fld. 1880/06W

TAWBA NDB (MHW/LOM) 332 HK N35°47.19′ W81°18.32′ 243° 4.9 NM to fld. NOTAM FILE HKY. ILS 108.7 I-HKY Rwy 24. LOM TAWBA NDB.

WILSON'S (E4Ø) 4 S UTC-5(-4DT) N35°39.12' W81°21.47'

CHARLOTTE

985 NOTAM FILE RDU

RWY 17-35: 2175X70 (TURF)

RWY 35: Trees.

AIRPORT REMARKS: Unattended. Arpt open dalgt hrs only. 130' AGL unmarked p-lines 1000' N and E of rwy. Rwy 35 slopes uphill. Last half of Rwy 17 slopes downhill—dep end of Rwy 35 is 6' lower than opposite end.

COMMUNICATIONS: CTAF 122.9

HIMUN N35°58.69′ W79°35.08′ NOTAM FILE BUY.

NDB (MHW/LOM) 361 HB 044° 6.8 NM to Burlington-Alamance Rgnl.

CINCINNATI L-25E. 36F

HINSHAW (GREENACRES) (See LIBERTY)

HOLLY RIDGE/TOPSAIL ISLAND (N21) 1 SE UTC-5(-4DT) N34°29.46′ W77°31.86′

CHARL OTTE

40 NOTAM FILE RDU

RWY 14-32: 3600X88 (TURF) RWY LGTS (NSTD)

RWY 14: Thid dsplcd 925', P-lines. RWY 32: Thid dsplcd 600'. P-lines.

AIRPORT REMARKS: Attended irregularly. Deer on and invof arpt. Rwy 14-32 lgtd thld Rwy 14 relocated 925'; Rwy 32 Igtd thid relocated 675'; 2000' of Rwy 14-32 usable for ngt ops. Dsplcd thid indicated by end of rwy Igts and yellow cones.

COMMUNICATIONS: CTAF 122.9

HORACE WILLIAMS (See CHAPEL HILL)

HUNTSBORO N36°18.03′ W78°37.12′ NOTAM FILE ROLL

NDB (MHW) 271 HXO 057° 5.7 NM to Henderson-Oxford.

HURDLE FLD (See MEBANE)

MACHINGTON L-36G

HURDLE MILLS

WHITFIELD FARMS (4W4) 2 W UTC-5(-4DT) N36°17.01′ W79°04.73′

CINCINNATI

653 NOTAM FILE RDU

RWY 03-21: 1950X70 (TURF)

RWY 03: Trees. RWY 21: Thid dspicd 400'. Trees.

AIRPORT REMARKS: Unattended. Be alert farm equipment/cattle may be on strip; salvage acft left side of Rwy 03. Small radio control model airplanes operate on airport. Owner prefers ldgs to the S and tkfs to the N. Rwy 03-21 NSTD markings, marked by yellow cones.

COMMUNICATIONS: CTAF 122.9

HYDE CO (See ENGELHARD)

INDIAN TRAIL

GOOSE CREEK (28A) 6 NE UTC-5(-4DT) N35°07.26' W80°35.24'

CHARLOTTE

565 B FUEL 100LL TPA—See Remarks NOTAM FILE RDU

RWY 04-22: H2350X35 (ASPH) LIRL (NSTD)

RWY 04: Thid dspicd 122'. Trees. RWY 22: Tree.

AIRPORT REMARKS: Attended irregularly. Call for fuel (704) 882-1102. Use caution due to extensive ultralight activity. Farm equipment on and invof arpt. Birds and wildlife on and invof arpt. Rwy 04 ngt ldgs not authorized. Rwy 04-22 has 4' electric fence 65' from centerline on southeast side. Rwy 04-22 has 15' dropoff 50' from centerline on southeast side at midfield. Rwv 04-22 has 15' roads 55' from centerline both sides of rwv. Rgt tfc Rwy 04 and Rwy 22 for ultralights only. TPA for ultralights 1100(535)), TPA for all other acft 1600(1035). Rwy 04-22 frist 400' southwest end unlgtd. Rwy 04-22 NSTD LIRL no thid lgts. Arpt lgts opr dusk-0530Z‡.

COMMUNICATIONS: CTAF/UNICOM 123.0

JAARS-TOWNSEND (See WAXHAW)

JACKSON CO (See SYLVA)

JACKSONVILLE

ALBERT J ELLIS (OAJ) 10 NW UTC-5(-4DT) N34°49.75′ W77°36.73′

94 B S4 FUEL 100LL, JET A ARFF Index—See Remarks NOTAM FILE OAJ RWY 05-23: H7100X150 (ASPH-GRVD) S-75, D-175, ST-175, DT-300

H-9C, 12G, L-35B IAP

CHARLOTTE

RWY 05: MALSR, PAPI(P4L)-GA 3.0°TCH 55'.

RWY 23: REIL. PAPI(P4L)-GA 3.0°TCH 47'.

AIRPORT REMARKS: Attended 1000-0100Z±. For fuel other hrs call 910-347-8366. CLOSED to air carrier ops with more than 30 passenger seats 0500-1000Z‡ except PPR call arpt manager 910-324-1100. Class I, ARFF Index A. Index B ARFF equipment is avbl. Arpt CLOSED to all military acft over 17,000 lbs for air carrier ramp ops except 24 hr PPR. Call arpt manager Mon-Fri 910-324-1100. 180°turns on Rwy 05-23 not authorized for acft 60,000 pounds and over. ACTIVATE HIRL Rwy 05-23, MALSR Rwy 05, REIL Rwy 23 and PAPI Rwy 05 and Rwy 23-CTAF. HIRL step 3

WEATHER DATA SOURCES: AWOS-3 124.475 (910) 324-5233.

COMMUNICATIONS: CTAF/UNICOM 123 O

- R WILMINGTON APP/DEP CON 135.75 (1100-0400Z‡) CLNC DEL 121.4
- R WASHINGTON CENTER APP/DEP CON 135.75 (0400-1100Z‡)

AIRSPACE: CLASS E svc Sun-Fri 1100-0500Z‡, Sat 1100-0430Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE CRE.

GRAND STRAND (L) VORTAC 117.6 CRE Chan 123 N33°48.83′ W78°43.47′ 045° 82 2 NM to fld 20/03W

OA N34°45.03′ W77°42.27′ 052° 6.6 NM to fld. Unmonitored. NOTAM FILE OAJ. ELLAS NDB (LOM) 261 ILS/DME 108.7 I-OAJ Chan 24 Rwy 05. LOM ELLAS NDB. LOM ELLAS NDB unmonitored.

SKY MANOR (N22) 8 W UTC-5(-4DT) N34°43.01′ W77°35.53′

CHARL OTTE

60 NOTAM FILE RDU

RWY 08-26: 3610X85 (TURF)

RWY N8: Thid depict 595' Trees RWY 26: Trees

AIRPORT REMARKS: Unattended. CAUTION—Areas of standing water on rwy after rains. Be alert, deer invof arpt. West half of rwy extremely soft when wet. Tkf and ldg in strong crosswinds not recommended due to severe drafts from trees. Rwy 08-26 marked with 2' yellow cones. Cones obscured by grass and brush.

COMMUNICATIONS: CTAF 122.9

CINCINNATI

L-25D

ΙΔΡ

JEFFERSON

ASHE CO (GEV) 3E UTC-5(-4DT) N36°25.95′ W81°25.18′ 3180 B S4 FUEL 100LL, JET A1+ NOTAM FILE GEV

RWY 10-28: H4293X75 (ASPH) S-12.5 MIRL 1.8% up W

RWY 10: Trees.

RWY 28: REIL, VASI(V2L)-GA 3.3° TCH 44', Brush.

WEATHER DATA SOURCES: AWOS-3 120,675 (336) 982-5555.

AIRPORT REMARKS: Attended 1400-2200Z‡. CLOSED Christmas day. For svc after hrs call 336-877-1102. Rising terrain all quadrants.

Rwy 28 has an uphill grade. Rwys 10 and 28 safety areas have 100 ft dropoffs 270 ft from thid. Rwy 28, 100' dropoffs 90' left and right of centerline. Construction activity on ramp and twy.

Deer invof arpt. Rwy 28 mountain penetrates VASI glide slope. ACTIVATE MIRL Rwy 10-28; VASI Rwy 28 and REIL Rwy 28-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

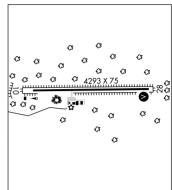
(R) ATLANTA CENTER APP/DEP CON 125.15

RADIO AIDS TO NAVIGATION: NOTAM FILE BNA.

HOLSTON MOUNTAIN (L) VORTAC 114.6 HMV Chan 93 N36°26.22' W82°07.78' 094° 34.4 NM to fld. 4321/04W.

ASHEE NDB (MHW/LOM) 410 JU N36°26.04′ W81°19.32′ 2769 4.7 NM to fld. NOTAM FLD GEV.

ILS/DME 109.35 I-JUH Chan 30 Rwy 28. LOM ASHEE NDB LOC only



JIGEL N34°32.76′ W79°08.30′ NOTAM FILE LBT.

NDB (MHW/LOM) 384 JB 054° 5.5 NM to Lumberton Muni.

CHARLOTTE L-24J, 35A, 36E

JNALL N35°36.41′ W78°21.27′ NOTAM FILE ROLL

NDB (MHW) 251 EUU 211° 4.3 NM to Johnston Co. NDB unmonitored 2200-1300Z‡.

CHARL OTTE L-35B. 36F

JOHNSTON CO (See SMITHFIELD)

JONESVILLE

SWAN CREEK (78A) 3 SW UTC-5(-4DT) N36°12.14′ W80°52.09′

CINCINNATI

1135 NOTAM FILE RDU

RWY 10-28: 2600X200 (TURF) RWY 10: Trees. RWY 28: Hill.

RWY 02-20: 1650X200 (TURF)

RWY 20. Trees

AIRPORT REMARKS: Attended irregularly. Arpt CLOSED to transient acft. Parachute Jumping. No line-of-sight between rwy ends. Rwy 10 slopes uphill; Rwy 02 first half slopes uphill. Rwy 20+3' fence 40'prior to thld. Arpt phone 919-835-9555

COMMUNICATIONS: CTAF 122.9

JULIAN

KECKS (N88) 2 NE UTC-5(-4DT) N35°55.59′ W79°37.65′

CHARL OTTE

724 NOTAM FILE RDU

RWY 05-23: 1400X75 (TURF)

RWY 05: Fence. RWY 23: Fence.

AIRPORT REMARKS: Unattended. Agricultural equipment occasionally on rwy. Buildings on NW edge of rwy. Additional obstruction p-line 1600 ft from thId Rwy 23.

COMMUNICATIONS: CTAF 122.9

JURLY N35°28.50′ W78°25.52′ NOTAM FILE JNX. CHARLOTTE

NDB (MHW/LOM) 263 JN 032°4.3 NM to Johnston Co. NDB unmonitored 2200-1300Z‡.

L-35B, 36F

NDB unusable bvd 15 NM.

KATFI N35°01.29′ W77°04.77′ NOTAM FILE EWN.

NDB (LOM) 362 EW 038° 3.6 NM to COASTAL CAROLINA RGNL.

CHARL OTTE

KEANS N35°31.97′ W82°35.25′ NOTAM FILE AVL.

NDB (LOM) 357 IM 163° 6.2 NM to Asheville Rgnl. ILS OTS 0330-1130Z‡ indef.

ATLANTA

KECKS (See JULIAN)

KENAN N35°04.34′ W77°55.13′ NOTAM FILE DPL. NDB (MHW) 332 DKA 223° 5.3 NM to Duplin Co.

CHARL OTTE L-35B

CHARL OTTE

WASHINGTON

L-35D

KFNANSVILLE

DUPLIN CO (DPL) 2 NW UTC-5(-4DT) N35°00.00′ W77°58.90′ S4 FUEL 100LL, JET A1 + OX 3 NOTAM FILE DPL

H-9C, 12G, L-35B

RWY 05-23: H6002X75 (ASPH) S-30, D-50 MIRI RWY 05: REIL, PAPI(P2L)-GA 3.0° TCH 26', Trees.

RWY 23: REIL, PAPI(P2L)—GA 3.0° TCH 44', Trees.

AIRPORT REMARKS: Attended Apr-Oct Mon-Sat 1200-0000Z±, Sun 1800-0000Z‡: Nov-Mar Mon-Sat 1300-2300Z‡. Sun 1800-2300Z‡. Deer/dogs/birds on and invof arpt. Twy Igts OTS indef, PAPI Rwv 05 and Rwv 23 opr continuously, ACTIVATE REIL Rwy 05 and Rwy 23-CTAF. MIRL Rwy 05-23 on until midnight. After midnight, ACTIVATE MIRL Rwy 05-23-CTAF.

WEATHER DATA SOURCES: AWOS-3 120.675 (910) 296-9688.

COMMUNICATIONS: CTAF/UNICOM 123.0

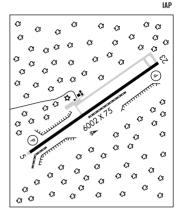
(R) SEYMOUR JOHNSON APP/DEP CON 119.7 (1200-0430Z±) WASHINGTON CENTER APP/DEP CON 135.5 (0430-1200Z‡)

GCO 135.075 (SEYMOUR JOHNSON CLNC) RADIO AIDS TO NAVIGATION: NOTAM FILE ISO.

KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26' W77°33.50' 228° 30.5 NM to fld. 106/05W.

KENAN NDB (MHW) 332 DKA N35°04.34' W77°55.13' 223° 5.3 NM to fld. NOTAM FILE DPL.

ILS 110.1 I-PZR Rwy 23. LOC only. LOC unusable byd 20° left of course. Unmonitored.



KILL DEVIL HILLS

FIRST FLIGHT (FFA) 1 W UTC-5(-4DT) N36°01.09' W75°40.28' 13 TPA-813(800) NOTAM FILE FFA

RWY 02-20: H3000X60 (ASPH) S-10

RWY N2. Road RWY 20: Brush. Rgt tfc.

AIRPORT REMARKS: Unattended, Airport CLOSED 30 minutes after SS until 30 minutes before SR. Hang gliding and powered hang gliding to 4000' invof arpt from SR-SS year round. Unmarked p-lines in apch area Rwy 02; 300' twr and tank 1/2 mile N of Rwy 20 thld. Deer and birds on and invof arpt. PPR Superintendent Cape Hatteras National Seashore, Manteo, NC, required for acft over 12,500 lbs. Windsock partially obscured by trees from apron. A maximum of 24 hrs parking permitted. No more than two overnight stays per month. Restroom facilities on site, key code access to Pilot Lounge.

WEATHER DATA SOURCES: AWOS-3 118.075 (252) 449-0698. **COMMUNICATIONS: CTAF 122.9**

RADIO AIDS TO NAVIGATION: NOTAM FILE MOI.

WRIGHT BROTHERS (T) VORW/DME 111.6 RBX Chan 53 N35°55.23′ W75°41.82′ 020° 6 NM to fld. 10/08W.

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NORTH CAROLINA 257 KINSTON RGNL JETPORT AT STALLINGS FLD (ISO) 3 NW UTC-5(-4DT) CHARL OTTE N35°19.89' W77°36.53' H-9C, 12H, L-35B 93 B S4 FUEL 100LL, JET A Class I, ARFF Index B NOTAM FILE ISO ΙΔΡ ΔΠ RWY 05-23: H11500X150 (ASPH-GRVD) S-90, D-135, ST-175, DT-260 HIRL RWY 05: MALSR. PAPI(P4L)—GA 3.0° TCH 60'. Thid dspicd 540'. RWY 23: REIL. PAPI(P4L)-GA 3.0° TCH 74'. Pole. AIRPORT REMARKS: Attended 1130-0300Z‡. CLOSED to unscheduled air carrier opr with more than 30 passenger seats except 24 hr PPR call arpt manager 252-522-2922. When twr clsd ACTIVATE HIRL Rwy 05-23, MALSR Rwy 05 and REIL Rwy 23-CTAF. WEATHER DATA SOURCES: AWOS-3 132.75 (252) 522-2712, LAWRS. COMMUNICATIONS: CTAF 120.6 UNICOM 122.95 RCO 122.15R 109.6T (RALEIGH RADIO) R SEYMOUR JOHNSON APP/DEP CON 127.3 (1200-0430Z‡) WASHINGTON CENTER APP/DEP CON135.5 (0430-1200Z‡) TOWER 120.6 (1130-0300Z±) GND CON 121.9 AIRSPACE: CLASS D svc 1130-0300Z± other times CLASS G. RADIO AIDS TO NAVIGATION: NOTAM FILE ISO. (L) VORTAC 109.6 ISO Chan 33 N35°22.26′ W77°33.50′ 231° 3.4 NM to fld. 106/05W. VOR portion unusable 221°-231° byd 30 NM blo 2000'. STALS NDB (LOM) 276 IS N35°14.64′ W77°41.90′ 049° 6.8 NM to fld. ILS 111.3 I-ISO Rwy 05, Class IT, LOM STALS NDB, Unmonitored when twr clsd, LOC BC unusable, MM OTS indef. LAKE NORMAN AIRPARK (See MOORESVILLE) LANEYS (See MAIDEN) LAURINBURG-MAXTON (See MAXTON) CHARLOTTE

LEECO N35°29.84′ W79°08.40′ NOTAM FILE TTA. NDB (MHW/LOM) 406 TT 028° 5.5 NM to Sanford-Lee Co Rgnl.

L-35B. 36F

LEEVY N35°55.63′ W78°43.32′ NOTAM FILE RDU. NDB (HW/LOM) 350 LE 234° 4.4 NM to Raleigh-Durham Intl. CHARL OTTE

L-36F

LEXINGTON

DAVIDSON CO (EXX) 3 SW UTC-5(-4DT) N35°46.87′ W80°18.23′ 733 B S4 FUEL 100LL, JET A+ NOTAM FILE EXX

CHARLOTTE H-9B, 12G, L-25D, 36F

RWY 06-24: H5004X99 (ASPH) MIRL 0.6% up SW RWY 06: REIL, PAPI(P2L)—GA 4.0° TCH 32', Trees.

RWY 24: REIL. PAPI(P2L)-GA 3.5° TCH 35'. Trees.

AIRPORT REMARKS: Attended 1300-0230Z‡. Wildlife on and invof arpt. Follow taxiway centerline to parking, Maximum ramp weight 30,000 pounds single wheel, 60,000 pounds dual wheel. After 0500Z‡ ACTIVATE PAPI Rwy 06 and Rwy 24, REIL Rwy 06 and Rwy 24—CTAF

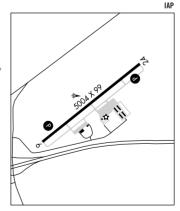
WEATHER DATA SOURCES: AWOS-3 119.825 (336) 956-2967. COMMUNICATIONS: CTAF/UNICOM 122.8

R GREENSBORO APP/DEP CON 118.5

GCO 135,075 (GREENSBORO CLNC and FLIGHT SERVICES) RADIO AIDS TO NAVIGATION: NOTAM FILE GSO.

GREENSBORO (H) VORTAC 116.2 GSO Chan 109 N36°02.74' W79°58.58' 228° 22.5 NM to fld. 879/3W. HIWAS. ILS/DME 108.75 I-EXX Chan 24(Y) Rwv 06

COMM/NAV/WEATHER REMARKS: GCO OTS indef.



LIBERTY N35°48.70′ W79°36.76′ NOTAM FILE RDU. (L) VORTAC 113.0 LIB Chan 77 001° 6.1 NM to Causey. 830/03W. RCO 122.1R 113.0T (RALEIGH RADIO)

CHARL OTTE H-9C, L-25E, 36F

LIBERTY

CAUSEY (2A5) 4 NW UTC-5(-4DT) N35°54.71′ W79°37.06′ 723 B S4 FUEL 100LL, JET A1+ OX 1 NOTAM FILE RDU RWY 02-20: H3800X40 (ASPH) S-8 LIRL(NSTD)

RWY 02: Trees. RWY 20: Tree.

AIRPORT REMARKS: Attended Mon-Sat 1300-2200Z‡, Sun 1800-2200Z‡. CLOSED New Year's Day, Easter, Jul 4th, Thanksgiving and Christmas. Fuel tank located 500' from Rwy 20 thid and 125' left. Rwy 02-20 NSTD LIRL: thid lgts located in the grass area 200' before the apch end Rwy 02; Rwy 20 thld Igts located in the grass area 300' before the AER 20. Rwy 02-20 NSTD LIRL lgts smaller than standard and 20' from pavement edge. Rwy 02 numbers NSTD basic; smaller than normal. Rwy 20 NSTD markings; smaller than normal. Soft dirt all rwy edges; exit ramp and twy. Building and parked acft within 90' of centerline at

COMMUNICATIONS: CTAF/UNICOM 122.8

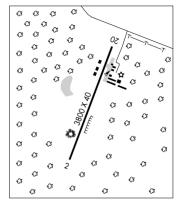
R GREENSBORO APP/DEP CON 118.5

N end of rwy.

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

LIBERTY (L) VORTAC 113.0 LIB Chan 77 N35°48.70' W79°36.76' 001° 6.1 NM to fld. 830/03W.

CHARLOTTE L-25A. 36F ΙΔΡ



HINSHAW (GREENACRES) (N61) 3 NE UTC-5(-4DT) N35°52.42′ W79°31.65′

CHARL OTTE

750 NOTAM FILE RDU

RWY 03-21: 1400X100 (TURF)

RWY 03: Trees. RWY 21: Trees.

AIRPORT REMARKS: Unattended, Ultralight activity on and invof arpt. 4' fence end of Rwy 3 and along both sides of rwy in primary surface. Rwy 03-21 width 50' maintained regularly. Arpt in traffic pattern of Causey Airport 2A5 (2 miles east) CTAF 122.8.

COMMUNICATIONS: CTAF 122.9

LINCOLNTON-LINCOLN CO RGNL (IPJ) 5 E UTC-5(-4DT) N35°29.00′ W81°09.68′ 877 B S4 FUEL 100LL, JET A1+ OX 2. 4 NOTAM FILE IPJ

MIRL

CHARLOTTE H-9B. 12G. L-25D ΙΔΡ

RWY 05: REIL. PAPI(P2L) GA-3.83° TCH 44'. Thid dsplcd 303'. RWY 23: REIL. PAPI(P2L) GA-3.45° TCH 30'. Thid dspicd 210'. Trees.

AIRPORT REMARKS: Attended Apr-Oct 1300-0100Z‡, Nov-Mar 1300-0000Z±, CLOSED Christmas Day, Deer, covote and birds on and invof arpt. Rwy 23 has a 90' dropoff 100' from pavement. MIRL Rwy 05-23 preset low ints, to increase ints and ACTIVATE REIL and PAPI Rwv 05 and Rwv 23-CTAF.

WEATHER DATA SOURCES: AWOS-3 119.675 (704) 735-6954. COMMUNICATIONS: CTAF/UNICOM 123.05

(R) CHARLOTTE APP/DEP CON 134.75 CLNC DEL 124.9 GCO 124.9 (CHARLOTTE CLNC)

RWY 05–23: H5500X100 (ASPH) S–30, D–60

RADIO AIDS TO NAVIGATION: NOTAM FILE CLT.

CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 N35°11.42' W80°57.11' 335° 20.4 NM to fld. 732/05W. HIWAS. LINCOLNTON NDB (MHW) 432 IZN N35°32.26′ W81°05.19′ 234° 4.9 NM to fld. NOTAM FILE RDU.

ILS 111.15 I-IPJ Chan 48(Y) Rwy 23.

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LONE HICKORY (See YADKINVILLE)

CHARLOTTE

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H-9C. 12H. L-35B. 36G

LOUISBURG

FRANKLIN CO (LHZ) 5 SW UTC-5(-4DT) N36°01.40 W78°19.82'

B S4 FUEL 100LL, JET A1+ NOTAM FILE LHZ

RWY 05-23: H5498X100 (ASPH) S-40, D-60 MIRL 0.7% up SW

RWY 05: MALSE, PAPI(P2L) GA-3.0° TCH 23', Trees, Rgt tfc. RWY 23: REIL. PAPI(P2L) GA-3.0° TCH 46'. Trees.

AIRPORT REMARKS: Attended 1300Z‡-0000Z‡. Arpt phone

919-496-1234; for svc after hrs call 919-729-4118. Arpt

unattended Thanksgiving and Christmas. Birds on and invof arpt. ACTIVATE MIRL Rwy 05-23 and REIL Rwy 23 and MALSF Rwy 05-CTAF; after dusk ACTIVATE PAPI Rwy 05 and Rwy 23-CTAF. PAPI opr continuously until dusk.

WEATHER DATA SOURCES: AWOS-3 118.325 (919) 497-0810.

COMMUNICATIONS: CTAF/UNICOM 123.0

R RALEIGH APP/DEP CON 125.3

GCO 135.075 (RALEIGH CLNC)

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

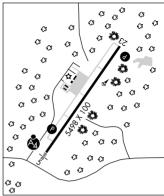
RALEIGH/DURHAM (H) VORTACW 117.2 RDU Chan

119 N35°52.35′ W78°47.00′ 072° 23.9 NM to fld.

429/04W.

Trees

ILS/DME 109.35 I-LHZ Chan 30(Y) Rwy 05, Class IA.



LUMBERTON MUNI (LBT) 3 W UTC-5(-4DT) N34°36.60′ W79°03.57′

126 B S4 FUEL 100LL, JET A1+ NOTAM FILE LBT

RWY 05-23: H5510X150 (ASPH) S-15 PCN 100 F/B/Y/T MIRL RWY 05: REIL. PAPI(P4L)—GA 3.0°TCH 45'. Thid dspicd 170'.

RWY 23: REIL, VASI(V4L)-GA 3.0°TCH 45', Trees.

RWY 13-31: H4998X150 (ASPH) S-8

RWY 13: Trees RWY 31: Thid dsplcd 590'.

AIRPORT REMARKS: Attended 1300-0000Z‡. For fuel after hrs call 910-618-9958. Deer and birds on and invof arpt. Rwy 05-23 and 13-31 no line of sight between rwy ends. Rwy 05 REIL OTS indef. MIRL Rwy 05-23 preset low ints; to increase ints and ACTIVATE REIL and PAPI Rwy 05 and VASI Rwy 23-CTAF.

WEATHER DATA SOURCES: ASOS 134.775 (910) 671-1906.

COMMUNICATIONS: CTAF/UNICOM 122.8

(R) FAYETTEVILLE APP/DEP CON 133.0

RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13' W78°52 50' 206° 24.3 NM to fld. 179/04W.

(T) VORW 110.0 LBT N34°36.64′ W79°03.29′ at fld NOTAM FILE LBT.

VOR unusable: 061°-134° blo 3.000′. 135°-164° bvd 15 NM

blo 3.000', 165°-185°, 186°-199° bvd 15 NM blo 3.000°, 200°-230°, 231°-060° bvd 15 NM blo 3.000',

JIGEL NDB (MHW/LOM) 384 JB N34°32.76′ W79°08.30′ 054° 5.5 NM to fld. NOTAM FILE LBT.

ROBESON NDB (MHW) 359 RSY N34°36.81′ W79°03.59′ at fld. NOTAM FILE LBT.

ILS 108.95 I-JBD Rwy 05. LOM JIGEL NDB.

COMM/NAV/WEATHER REMARKS: VOR and NDB unmonitored 0100-1300Z‡ Mon-Fri, 0000-1500Z‡ Fri and Sat, 0000-1300Z Sun and Mon.

CHARL OTTE H-9C, 12G, L-24J, 35A, 36E

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MACKALL AAF (HFF) A 1 E UTC-5(-4DT) N35°02.20′ W79°29.84′ CHARL OTTE 376 B NOTAM FILE RDU Not insp I-35A 36F PCN 32 F/B/W/T ΠΙΔΡ RWY 04-22: H4997X150 (ASPH) RWY 16-34: H4916X150 (CONC)

PCN 10 R/D/W/T HIRI RWY 11-29: H4740X150 (CONC)

RWY 11: REIL. Thid dsplcd 501'. RWY 29: REIL.

MILITARY SERVICE: LGT Rwy lgts intermittent between SR/SS due to local night vision training, non-participating acft ctc twr to incr ints. FUEL J8

MILITARY REMARKS: Opr Mon-Sat 1310-0500Z‡. Except Federal holidays. When twr and/or surface visibility is blo 4 SM the lesser will be reported as prevailing. Airfield subject to closing on short notice. See FLIP AP/1 flight hazard Sandhills VORTAC. RSTD PPR phone C(919) 396-6230/V236-6230 during opr hrs, other times V236-7804. First 1000' Rwy 11 usable for rotary wing opr only, remainder of rwy CLOSED. First 3500' Rwy 29 CLOSED. Twy D ltd to ACN 32 R/B/X/T. Helicopter with heavy-duty skid shoes will not touch down on Rwy 04-22 or set down on parking aprons, except concrete refuel pads. Rwy 16-34 CLOSED until further notice. CAUTION Extensive military acft in vicinity of airfield, day and night. 120' communication antenna located WSW corner of fire station, Advisory: Rng Ctl 121.0, 304.6, MISC Contact twr chief DSN 236-7308/9775 during opr hours, other times DSN 236-7804. No engine will be shutdown on Rwy 04-22 or Twy H. Weather observation avbl. Weather forecast avbl from Simmons AAF via direct line.

COMMUNICATIONS: ATIS 141.4

FAYETTEVILLE APP/DEP CON 127.8 343.725

TOWER 121.0 254.4 (Mon-Sat 1310-0500Z[±]), except Federal holidays GND CON 128 35 251 05 41 75

PMSV METRO 141.25 265.6 (Mon 0500Z‡-Sat 0400Z‡)

BASE OPS 395.225 RANGE RDO 139.35 249.9 38.9

AIRSPACE: CLASS D svc Mon-Sat 1310-0500Z‡, except Federal holidays, other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93′ W79°35.28′ 160° 11.6 NM to field, 590/03W. NDR (MHW) 278 HFF N35°01.68' W79°29.14' at fld, Unmonitored 0500-1300Z±, No NOTAM MP 1st Tue 0400-1200Z‡.

MACON CO (See FRANKLIN)

MAIDEN

1025

LANEYS (N92) 3 SE UTC-5(-4DT) N35°34.46′ W81°07.04′ CHARLOTTE

NOTAM FILE RDU RWY 13-31: 2400X75 (TURF) RWY 05-23: 2000X100 (TURF)

RWY 05. P-line RWY 23: P-line.

AIRPORT REMARKS: Attended 1300-dusk, Ultralight acft opr on and invof arpt, Rwy 05, Rwy 23 and Rwy 31 has unmarked p-lines across rwy thlds. Rwy 05 and Rwy 13 for preferred landing (uphill). Rwy 13 has no line of site from rwy end.

COMMUNICATIONS: CTAF/UNICOM 122.8

MANTEO N35°54.92′ W75°41.70′ NOTAM FILE MOI. CHARL OTTE

NDB (MHW) 370 MQI at Dare Co. Rgnl. Unmonitored 2300-1300Z‡.

1 - 35D

CHARLOTTE

L-35D

MANTEO

DARE CO RGNL (MQI) 1 NW UTC-5(-4DT) N35°55.14′ W75°41.73′
13 B S4 FUEL 100LL, JET A1+ NOTAM FILE MOI

RWY 05-23: H4305X100 (ASPH) S-48 MIRL

RWY 05: REIL. PAPI(P2L)—GA 3.0° TCH 28'. Third depict 305'.

RWY 23: PAPI(P2L)—GA 4.0°. Thid dsplcd 301'. Trees.

RWY 17-35: H3301X73 (ASPH) S-20 MIRL

RWY 17: Thid dsplcd 289'. Trees.

RWY 35: Thid dspicd 989' Trees.

AIRPORT REMARKS: Attended 1300–0000Z‡. CLOSED Christmas day.

After hrs self svc fuel avbl with credit card—100LL. Call

252–216–7028 or 252–216–8407. 300' crane 3 NM SW AER 05. 200' Igtd crane 2 NM SSW of arpt. Banner towing ops 200' W of Rwy 05. Migratory waterfowl Oct–Feb. Rwy 05 15' dropoff 40' from thId. Rwy 23 PAPI OTS indef. ACTIVATE MIRL Rwys 05–23 and 17–35, PAPI and REIL Rwy 05—CTAF.

WEATHER DATA SOURCES: AWOS-3 128.275 (252) 473-2826.

COMMUNICATIONS: CTAF/UNICOM 122.8

WASHINGTON CENTER APP/DEP CON 124.725

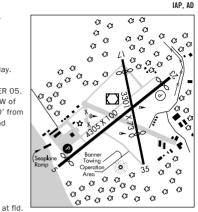
RADIO AIDS TO NAVIGATION: NOTAM FILE MQI.

WRIGHT BROTHERS (T) VORW/DME 111.6 RBX Chan 53

N35°55.23′ W75°41.82′ at fld. 10/08W.

MANTEO NDB (MHW) 370 MOI N35°54.92′ W75°41.70′

COMM/NAV/WEATHER REMARKS: VORW/DME and NDB unmonitored 2300-1300Z‡.



MARION

SHIFLET FLD (9A9) 3 N UTC-5(-4DT) N35°43.24′ W82°00.59′

1212 B S4 **fuel** 100ll notam file RDU

RWY 10-28: 3340X180 (TURF) LIRL

RWY 10: Trees. RWY 28: Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡. For fuel call 828-655-1306 cash only. Rwy subject to flooding after very heavy rains on east end. Hangers are spaced closer than normal; slower taxi speeds required.

ACTIVATE LIRL Rwy 10-28 and arpt beacon-CTAF.

COMMUNICATIONS: CTAF 122.9

MARKY N36°10.02′ W80°02.14′ NOTAM FILE GSO.

NDB (LOM) 254 GS 139° 6.3 NM to Piedmont Triad International. (Unmonitored)

CINCINNATI L-25E. 36F

ATLANTA

MARTIN CO (See WILLIAMSTON)

MAXTN N34°44.04′ W79°26.66′ NOTAM FILE RDU.

NDB (MHW/LOM) 257 ME 056° 5.2 NM to Laurinburg-Maxton. OM OTS indef.

CHARLOTTE L-35A. 36E

MAXTON

LAURINBURG-MAXTON (MEB) 3 N UTC-5(-4DT) N34°47.52′ W79°21.95′

216 B S2 FUEL 100LL, JET A1+ NOTAM FILE MEB

RWY 05–23: H6503X150 (CONC) S–25, D–35 RWY 05: MALSR. PAPI(P4L)-GA 3.0°TCH 51'. Trees.

RWY 23: PAPI(P4L)-GA 3.0°TCH 50'. Trees. Rgt tfc.

RWY 13-31: H3753X150 (CONC) S-25, D-35 MIRL

RWY 13: Trees. Rgt tfc.

AIRPORT REMARKS: Attended Mon-Fri 1300Z‡-2200Z‡. For svc after hrs call 910-277-0367 or 910-318-6907. 24 hr self svc with credit card. For airframe repairs call arpt to arrange for svc. Parachute Jumping. Heavy parachute jumping at south end of closed Rwy 18-36 and south side of Rwy 13-31. Farming equipment and military operations on and invof arpt. Rwy 13-31 spalling, heaving, cracks and loose gravel on rwy due to failed payement areas. Upslope first 1000' Rwy 23 restricted sight distance to SW end of rwy. Parallel and connector twys on Rwy 13-31 clsd and unusable, ACTIVATE MALSR Rwv 05, PAPI Rwv 05 and Rwy 23, HIRL Rwy 05-23-CTAF. For MIRL Rwy 13-31 ctc arpt manager 910-277-3067 or 910-318-6907.

WEATHER DATA SOURCES: ASOS 134.125 (910)844-5338.

COMMUNICATIONS: CTAF/UNICOM 122.8

R FAYETTEVILLE APP/DEP CON 127.8

GCO 135.075 (FAYETTEVILLE CLNC)

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93′ W79°35.28′ 160° 27.6 NM to fld. 590/03W. MAXTN NDB (MHW/LOM) 257 ME N34°44.04′ W79°26.66′ 056° 5.2 NM to fld. OM OTS indef. ILS 110.7 I-MEB Rwy 05. Class IB. LOM MAXTN NDB. LOC/GS unmonitored SS-SR. OM/MM

unmonitored, OM OTS indef.

MCCUTCHEON FLD (See NEW RIVER MCAS)

MEADOW BROOK FLD (See WALNUT COVE)

MEBANE

HURDLE FLD (4W7) 2 SW UTC-5(-4DT) N36°04.01′ W79°16.98′

CINCINNATI

CHARLOTTE

ΙΔΡ

H-9C. 12G. L-35A. 36E

680 NOTAM FILE RDU

RWY 03-21: 2200X150 (TURF) RWY 03: Road.

RWY 21: P-line.

AIRPORT REMARKS: Attended irregularly. Rwy 21 unmarked p-line is difficult to see.

COMMUNICATIONS: CTAF 122.9

MEYERS HELIPORT (See CANDLER)

MICHAEL J. SMITH FLD (See BEAUFORT)

CHARL OTTE

L-25D, 36F

ΙΔΡ

MOCKSVILLE

SUGAR VALLEY (31A) 6 NE UTC-5(-4DT) N35°59.12′ W80°30.67′

30.67' CHARLOTTE

731 **FUEL** 100LL TPA—1500(769) NOTAM FILE RDU

RWY 02–20: H2424X25 (ASPH) LIRL (NSTD)

RWY 02: Trees. Rgt tfc. RWY 20: Trees.

AIRPORT REMARKS: Attended Mon-Fri 1400–2100Z‡. Fuel avbl weekends by prior arrangement. Call Mon-Fri 336–998–3971. Arpt CLOSED to transient acft 2300–1100Z‡. Be alert for 55′ trees 50′ from Rwy 20 thld during ngt ops. Day VFR ops for transient acft only. Recommended ldg Rwy 02 and tkf Rwy 20 due to obstructing trees on NE end. Rwy 02–20 safety area has hazardous depressions as close as 15′ from pavement. Rwy 02 rwy numbers are smaller than standard. Rwy 02 rwy numbers are smaller than standard. Rwy 02–20 NSTD LIRL; not FAA approved L-800 series. Thid Igts 13′ from pavement. ACTIVATE LIRL Rwy 02–20—CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.0

710

WATERWAY 02-20: 2000X100 (WATER)

WATERWAY 02: Trees. WATERWAY 20: Ground.

SEAPLANE REMARKS: Rwv 02W-20W CLOSED indef due to low water levels.

TWIN LAKES (8A7) 5 NE UTC-5(-4DT) N35°54.89′ W80°27.41′ 818 B S4 **FUEL** 100LL TPA—1618(800) NOTAM FILE RDU

RWY 09-27: H2943X50 (ASPH) S-12.5 LIRL 1.5% up E

RWY 09: PAPI(P2R). Trees. RWY 27: Trees.

AIRPORT REMARKS: Attended 1300–2200Z‡. Fuel 24 hr self service with credit card. Deer/migratory birds occasionally on arpt. Rwy 09 18 ft drop-off 150 ft from thid left and right of centerline. Rwy 09 PAPI ops dusk-dawn.

COMMUNICATIONS: CTAF/UNICOM 122.7

R GREENSBORO APP/DEP CON 124.35

RADIO AIDS TO NAVIGATION: NOTAM FILE GSO.

GREENSBORO (H) VORTAC 116.2 GSO Chan 109 N36°02.74′ W79°58.58′ 255° 24.7 NM to fld. 879/03W. **HIWAS**.

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MONROE

CHARLOTTE-MONROE EXECUTIVE (EQY) 5 NW UTC-5(-4DT) N35°01.13′ W80°37.21′ 679 B S4 FUEL 100LL, JET A+ OX 3, 4 NOTAM FILE EOY

RWY 05-23: H5500X100 (ASPH) S-25 D-38 HIRL 0.3% up SW

RWY 05: MALSR. REIL. PAPI(P2L)-GA 3.0° TCH 41'.

RWY 23: REIL. PAPI(P2L)-GA 3.0° TCH 44. Road.

AIRPORT REMARKS: Attended 1100-0300Z‡. For after hr svc, phone 704-289-2615 or 704-320-6256. 24 hr self svc fuel, avbl for all fuel types with credit card. Deer, wildlife, and birds on and invof arpt. Unlighted construction crane located less than 1/4 mile southeast of Rwy 05-23. Arpt phone number 704-226-2300. ACTIVATE HIRL Rwv 05-23, MALSR Rwv 05-CTAF, REIL Rwvs 05 and 23 opr dusk-0500Z‡. After 0500Z‡, ACTIVATE-CTAF.

WEATHER DATA SOURCES: ASOS 135.775 (704) 283-5185.

COMMUNICATIONS: CTAF/UNICOM 122.7

(R) CHARLOTTE APP/DEP CON 120.05 CLINC DEL 132.55

RADIO AIDS TO NAVIGATION: NOTAM FILE CLT.

CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 N35°11.42' W80°57.11′ 127° 19.3 NM to fld. 732/05W. HIWAS. FORT MILL (L) VORTAC 112.4 FML Chan 71 N34°59.35"

W80°57.27' 086° 16.6 NM to fld. 645/02W, NOTAM FILE AND SHIITDOWN

TWL N34°57.18′ W80°42.31′ 052° WESLEY NDR (MHW) 204 5.8 NM to fld. NOTAM FILE EQY. NDB unmonitored 2200-1300Z‡.

Rwy 05. Class IA. LOC unmonitored 2200-1300Z‡. Coupled apch not authorized blo ILS 109.75 I-EOY 1120'.



MOORE CO (See PINEHURST/SOUTHERN PINES)

MOORESVILLE

LAKE NORMAN AIRPARK (14A) 5 NW UTC-5(-4DT) N35°36.83′ W80°53.97′

839 B S4 FUEL 100LL NOTAM FILE RDU

RWY 14-32: H3147X40 (ASPH) S-8 MIRL 1.0% up SE RWY 14: PVASI(PSIR)-GA 4.0° TCH 15'. Trees. Thid dsplcd 185'. RWY 32: PVASI(PSIR)-GA 4.0° TCH 5'. Road.

AIRPORT REMARKS: Attended 1300-2300Z‡. Dep Rwy 14 heading 160° to avoid school. Full acft maintenance avbl ctc 704-662-6986. VFR operations only. Rwy 14 has uphill grade. Acft taxiing on grass in vicinity of residential airpark hanger access. Rwy numbers NSTD. Rwy 14 small numbers. Rwy 32 has 10' drop off 5' fm left side of pavement and acft parked 200' fm end of Rwy 100' right of centerline. Noise sensitive area. Avoid departures between 0400 and 1100Z‡. ACTIVATE MIRL Rwy 14-32-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

PVASI opr dusk-dawn. R CHARLOTTE APP/DEP CON 134.75

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 W80°57.11' 11° 25.5 NM to fld. 732/05W. HIWAS.

CHARL OTTE L-25D, 36E 03 C a Creek 3 ß €3 (3 63 63 ¢ €3 Ø Œ **(3** €3 a *(*3 **(3** *(*3

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MOREHEAD N34°43.87′ W76°39.73′ NOTAM FILE MRH. NDB (MHW) 269 MRH at Michael I Smith Fld NDR unmonitored

CHARLOTTE L-35B

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H-9B. 12G. L-25D. 36E

MORGANTON

FOOTHILLS RGNL (MRN) 6 NE UTC-5(-4DT) N35°49.21′ W81°36.68′ 1270 B S5 FUEL 100LL, JET A1 + OX 1, 4 NOTAM FILE MRN

CHARLOTTE H-9B, 12G, L-25C

CINCINNATI

L-26J

RWY 03–21: H5500X75 (ASPH) D–60 MIRL 0.7% up NE

RWY 03: REIL. PAPI(P4L)—GA 3.0° TCH 66'.

RWY 21: REIL. PAPI(P4R)—GA 3.5° TCH 50'. Trees.

AIRPORT REMARKS: Attended Mon–Sat 1300Z‡–SS, Sun 1400Z‡–SS.
After hrs fuel or svc call 828–757–0099. Glider activity dalgt hrs.
Deer and coyote on and invof arpt. Rwy 03, 100' dropoff 330' from thid and 80' both sides of centerline along first 1000' of rwy.
Rwy 21, 30' dropoff 400' from thid both sides and 10' dropoff 50' from thid and 150' right of centerline. ACTIVATE MIRL Rwy 03–21,
REIL Rwy 03 and Rwy 21 and PAPI Rwy 03 and Rwy 21–CTAF.

WEATHER DATA SOURCES: AWOS-3 124.175 (828) 757-0788.

COMMUNICATIONS: CTAF/UNICOM 122.7

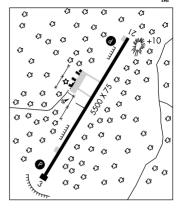
R ATLANTA CENTER APP/DEP CON 125.15

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

BARRETTS MOUNTAIN (L) VOR/DME 110.8 BZM Chan 45 N35°52.13′ W81°14.43′ 267° 18.3 NM to fld. 1880/06W.

FIDDLERS NDB (MHW) 391 FIQ N35°42.61′ W81°40.28′ O31° 7.2 NM to fld. NDB unusable byd 20 NM. NDB located 41,900′ from threshold Rwy 03 and 400′ SE of extended centerline.

IL\$ 111.1 I-MRN Rwy 03. Localizer only.



MOUNT AIRY/SURRY CO (MWK) 3 SE UTC-5(-4DT) N36°27.58′ W80°33.18′

1249 B S2 **FUEL** 100LL, JET A1+ NOTAM FILE MWK **RWY 18–36**: H4301X75 (ASPH) S–10 MIRL 0.9% up N

RWY 18: PAPI(P2L)—GA 4.0° TCH 27'. Thid dspicd 490'. Trees. RWY 36: PAPI(P2L)—GA 3.0° TCH 26'. Trees.

AIRPORT REMARKS: Attended 1300Z‡-dark. After hr svc avbl/posted on door. CAUTION—Trees elevation 1235 ft located 150 ft S and 100 ft E of threshold Rwy 36. Rwy 36-50 ft drop-off 300 ft from thId and 150 ft right and left of centerline. Rwy 18-36 opr dusk-0330Z‡; after 0330Z‡ ACTIVATE—CTAF. ACTIVATE PAPI Rwys 18 and 36 and REIL Rwy 36—CTAF.

WEATHER DATA SOURCES: AWOS-3 121.125 (336) 789-2299.

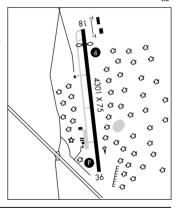
COMMUNICATIONS: CTAF/UNICOM 123.0

R GREENSBORO APP/DEP CON 124.35

RADIO AIDS TO NAVIGATION: NOTAM FILE GSO.

GREENSBORO (H) VORTAC 116.2 GSO Chan 109 N36°02.74′ W79°58.58′ 315° 37.4 NM to fld. 879/03W. **HIWAS**.

NDB (MHW) 223 AZW N36°22.86′ W80°32.41′ 360° 4.8 NM to fld. NOTAM FILE MWK. Unmonitored 2300–1200Z‡.



MT OLIVE MUNI (W4Ø) 3 NE UTC-5(-4DT) N35°13.35′ W78°02.25′

168 B S4 FUEL 100LL OX 1,2 NOTAM FILE RDU RWY 05-23: H4251X75 (ASPH) S-20 MIRL

RWY 05: PAPI(P2L)-GA 3.5° TCH 40'. Trees.

RWY 23: PAPI(P2L)-GA 3.0° TCH 34'. Thid dsplcd 254'. Crops.

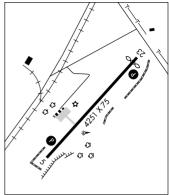
AIRPORT REMARKS: Attended 1300-2300Z‡. CLOSED on major holidays, for svc after hrs call 252-234-7778. 24 hr self svc with credit card. -5' drainage ditch 100' left of centerline of Rwy 05. Low level military activity near arpt. For collision avoidance ctc

Seymour AFB 119.7, ACTIVATE and incr ints MIRL Rwv 05-23 and PAPI Rwy 05 and Rwy 23.

COMMUNICATIONS: CTAF/UNICOM 122.8

R SEYMOUR JOHNSON APP/DEP CON 119.7 (1200-0430Z‡) WASHINGTON CENTER APP/DEP CON 135.5 (0430-1200Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE ISO. KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26' W77°33.50' 254° 25.2 NM to fld. 106/05W.



CHARL OTTE

L-35B. 36F

CHARLOTTE

CHARLOTTE

H-9C, L-35B

L-35B

ΙΔΡ

NEW BERN N35°04.39′ W77°02.70′ NOTAM FILE EWN.

(L) VOR/DME 113.6 EWN Chan 83 at Coastal Carolina Rgnl. 10/08W.

VOR portion unusable 120°-160°. DME portion unusable 065°-330° byd 30 NM blo 3000'.

RCO 122.4 122.2 (RALEIGH RADIO) RCO 122.1R 113.6T (RALEIGH RADIO)

NEW BERN

COASTAL CAROLINA RGNL (EWN) 3 SE UTC-5(-4DT) N35°04.38' W77°02.58'

18 B S4 FUEL 100LL, JET A Class I, ARFF Index A NOTAM FILE EWN RWY 04-22: H6004X150 (ASPH-GRVD) S-30, D-62, DT-140 HIRL

RWY 04: REIL. PAPI(P4L). RWY 22: REIL. PAPI(P4L), Trees.

RWY 14-32: H4000X150 (ASPH) S-28, D-45 MIRL

RWY 14: REIL. PAPI(P2L), Trees. RWY 32: REIL. PAPI(P2L). Tree.

AIRPORT REMARKS: Attended 1000-0430Z±, CLOSED to unscheduled air carrier opr with more than 30 passenger seats except 24 hr PPR call arpt manager 252-638-8591. Rwy 14 PAPI OTS indef. ACTIVATE HIRL Rwy 04-22, REIL Rwy 04 and Rwy 22, MIRL Rwy 14-32 and REIL Rwy 14 and Rwy 32-CTAF. PAPI Rwys 04, 22, 14 and 32 opr 24 hrs.

WEATHER DATA SOURCES: ASOS 118.525 (252) 514-2086.

COMMUNICATIONS: CTAF 124.25

RC0 122.4 122.2 (RALEIGH RADIO)

RC0 122.1R 113.6T (RALEIGH RADIO)

R CHERRY POINT APP/DEP CON 119.35 CLNC DEL 120.525 $(0300-1100Z\pm)$

NEW BERN TOWER 124.25 (1100-0300Z‡)

GND CON 121.7 CLNC DEL 121.7

AIRSPACE: CLASS D svc 1100-0300Z‡ other times CLASS E.

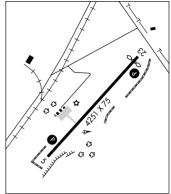
RADIO AIDS TO NAVIGATION: NOTAM FILE EWN.

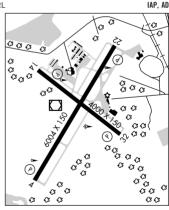
NEW BERN (L) VOR/DME 113.6 EWN Chan 83 N35°04.39′ W77°02.70′ at fld. 10/08W.

KATFI NDB (LOM) 362 EW N35°01.29' W77°04.77' 038° 3.6 NM to fld.

ILS 110.5 I-EWN Rwy 04. LOM KATFI NDB.

ASR (Mon-Fri 1100-0500Z‡, Sat 1300-2100Z‡, Sun 2000-0400Z‡)





NEW RIVER MCAS (MCCUTCHEON FLD) (NCA)(KNCA) MC 3 S UTC-5(-4DT) CHARL OTTE N34°42.51' W77°26.38' H-9C. L-35B 26 B NOTAM FILE NCA DIAP. AD Not insp. RWY 05-23: H5114X150 (ASPH) PCN 80 F/B/W/T HIRI RWY 05: SALSF. PAPI(P4L)-GA 3.0° TCH 47'. RWY 23: PAPI(P4L)-GA 3.0° TCH 37'. RWY 01-19: H4790X150 (ASPH) PCN 80 F/B/W/T HIRL

RWY 01: SALSF. PAPI(P4R)—GA 3.0° TCH 45'. RWY 19: PAPI(P4L)-GA 3.0° TCH 41'. MILITARY SERVICE: LGT Rwy 19 and Rwy 23 thId Igt vary from 1' to 15' from edge of the pavement. Non standard PCL all rwys. VHF 120.0 3 clicks step 1, 5 clicks step 3, 7 clicks off. FUEL J5 Fuel svc Mon-Fri 1300Z‡ until 1 hr prior to fld closure, clsd Sat, Sun and holidays. TRAN ALERT PPR Mon-Thu 1300-0300Z±, Fri 1300-0000Z±, clsd Sat, Sun and holidays. For acft remaining overnight ctc host unit. No clsd fld authorized for tran acft.

MILITARY REMARKS: Opr Mon-Thu 1300-0600Z±, Fri 1300-0000Z±, clsd Sat. Sun and holidays, See FLIP AP/1 Supplement Arpt Remarks. RSTD PPR all transient acft (minimum 24 hr in advance). Call Base Ops DSN 752-6311/6316, C910-449-6311/6316. Twy A at mid-fld clsd to C-130 and larger acft. CAUTION Bird hazard Oct-Apr. Wildlife hazard on arpt, especially SS-SR. IFC PAT Tactical jets prohibited, non-vertical and short takeoff and landing only. NS ABTMT Touch and go not avbl after 0400Z±. MISC All acft with passenger/cargo/Distinguished Visitor ctc Base Ops 20 min prior to landing.

COMMUNICATIONS: ATIS 288.325 (Unmonitored, avbl during opr hrs only)

R CHERRY POINT APP/DEP CON 119.35 377.175

TOWER 120.0 360.2 323.25 ARRIVAL 124.85 279.575 (Mon-Thu 1300-0600Z‡, Fri 1300-0000Z‡, clsd Sat, CLNC DEL 239.025 Sun and holidays.) GND CON 121.8 254.275

PMSV METRO 244.775 (daily 1100-2200Z‡) Unmonitored after 2200Z‡. NEW RIVER OPS 253.3

AIRSPACE: CLASS D (Mon-Thu 1300-0600Z‡, Fri 1300-0000Z‡, clsd Sat, Sun and holidays, other times CLASS G. RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

(I) TACAN Chan 101 NCA (115.4) N34°42.43′ W77°26.42′ at fld. 74/8W. Unmonitored and ident off when fld not opr.

ILS/DME 111.1 I-NCA Rwy 01. GS unusable byd 4° left of course and 7° right of course. ASR/PAR

COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima.

NORTHEASTERN RGNL (See EDENTON)

NORTH WILKESBORO

WILKES CO (UKF) 4NE UTC-5(-4DT) N36°13.37′ W81°05.90′ 1301 B S4 FUEL 100LL, JET A1+ OX 3,4

CINCINNATI NOTAM FILE UKF Not insp. H-9B, 12G, L-25D IAP

RWY 01-19: H6200X100 (ASPH) S-45 MIRL 0.9% up N RWY 01: MALSR. REIL. PAPI(P2L)-GA 3.0° TCH 44'. Trees.

RWY 19: REIL, PAPI(P2L)—GA 3.0° TCH 36', Tree.

AIRPORT REMARKS: Attended dawn-dusk Arnt unattended Thanksgiving and Christmas. PAEW east of Rwy 01-19 Mon-Fri SR-SS. Deer on and invof arpt. Rwy 01-19 no line of sight between rwy ends. MIRL Rwv 01-19 preset low ints: to increase ints and ACTIVATE MALSR Rwy 01; PAPI Rwy 01 and Rwy 19 and REIL Rwy 19 and twy lgts-CTAF

WEATHER DATA SOURCES: AWOS-3 126.625 (336) 696-3788.

COMMUNICATIONS: CTAF/UNICOM 122.7

WILKI NDB.

WILKSBORD RCD 122 4 (RALFIGH RADIO)

ATLANTA CENTER APP/DEP CON 125.15

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

BARRETTS MOUNTAIN (L) VOR/DME 110.8 BZM Chan 45

N35°52.13′ W81°14.43′ 024°22.3 NM to fld. 1880/06W. WILKI NDB (MHW/LOM) 209 UKF N36°06.77′ W81°05.89′

006°6.6 NM to fld. ILS/DME 111.55 I-UKF Chan 52(Y) Rwy 01. Class IB.

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OAK ISLAND

BRUNSWICK CO (SUT) 1 NE UTC-5(-4DT) N33°55.78′ W78°04.48′

24 B S4 FUEL 100LL, JET A1+ NOTAM FILE SUT

RWY 05-23: H4301X100 (ASPH) S30 MIRI

RWY 05: PAPI(P2L)-GA 3.0° TCH 39'.

RWY 23: PAPI(P2L)-GA 3.0° TCH 39'. Thid dspicd 300'. Road.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 05: TORA-4000 TODA-4300 ASDA-4200 RWY 23: TORA-4300 TODA-4300 ASDA-4300

AIRPORT REMARKS: Attended 1300-2300Z±. For syc after hrs call

910-278-9896. Fuel avbl 24 hr. self svc with credit card. Deer and birds on and invof arpt. Flight training and sight-seeing ops invof arpt. Banner towing ops on arpt summer months. Skydiving ops. ACTIVATE MIRL Rwv 05-23-CTAF, PAPI Rwv 05 and Rwv 23 on continuously

WEATHER DATA SOURCES: AWOS-3 124.175 (910) 457-1710.

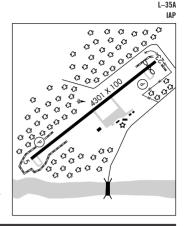
COMMUNICATIONS: CTAF/UNICOM 123.0

(R) WILMINGTON APP/DEP CON 118.25 (1100-0400Z±)

(R) WASHINGTON ARTCC APP/DEP CON 124.025 (0400-1100Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE CRE. GRAND STRAND (L) VORTAC 117.6 CRE Chan 123 N33°48.83°

084° 33.2 NM to fld. 20/03W. W78°43 47'



OAK RIDGE

DS BUTLER FARM AND AIRFIELD (N83) 2 NW UTC-5(-4DT) N36°11.71′ W80°00.32′

CINCINNATI

CHARLOTTE

950 NOTAM FILE RDU RWY 01-19: 2000X60 (TURF)

RWY 19. Trees RWY N1. Trees

AIRPORT REMARKS: Unattended. Due to sloping rwys-tkfs Rwy 19 and ldgs Rwy 01. 70' trees along both sides of rwy 70' from centerline. Helicopter activity .5 NM west of Rwy 01-19 centerline.

COMMUNICATIONS: CTAF 122.9

OCEAN ISLE BEACH

ODELL WILLIAMSON MUNI (6ØJ) 1 N UTC-5(-4DT) N33°54.51′ W78°26.20′

CHARLOTTE L-35A

FUEL 100LL NOTAM FILE RDU

RWY 06-24: H4000X75 (ASPH) S-12 MIRL RWY 06: PAPI(P2L)—GA 3.25° TCH 42'. Tree.

RWY 24: PAPI(P2L)—GA 2.45° TCH 35', Thid dspicd 200'.

AIRPORT REMARKS: Attended May-Sep 1300-2200Z‡, Oct-Apr Sat-Sun 1400-2200Z‡ Mon-Fri on call 910-309-2983. 24 hr self svc fuel with credit card. 24 hr pilot lounge. Parallel twy beyond ramp is closed. Rwy 06 has 48' marked transistional powerline +/- 100' from threshold, ACTIVATE MIRL Rwv 06-24—CTAF,

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE CRE.

GRAND STRAND (L) VORTAC 117.6 CRE Chan 123 N33°48.83′ W78°43.47′ 071° 15.5 NM to fld. 20/03W.

OCRACOKE ISLAND (W95) 1 E UTC-5(-4DT) N35°06.07' W75°57.96'

CHARL OTTE L-35C

IΛP

B TPA-805(800) NOTAM FILE RDU

RWY 06-24: H2999X60 (ASPH) S-30

RWY 06: Brush. RWY 24: Brush.

AIRPORT REMARKS: Unattended. Arpt CLOSED 30 minutes after SS until 30 minutes before SR. Ngt tkf prohibited. Flocks of seagulls on and near rwy around standing water after heavy rains. Rwy subject to flooding after heavy rain. High speed low level military opr invof arpt. Rwy safety area is loose sand, not suitable for acft. +20 ft sand dune 300 ft NE Rwy 24 thld on centerline. Arpt is within Cape Hatteras National Seashore. Maintain 2000 ft vertical and horizontal distance from seashore beaches. Key code access to pilot lounge.

COMMUNICATIONS: CTAF 122.9

CHERRY POINT APP/DEP CON 119.75 (North)

RADIO AIDS TO NAVIGATION: NOTAM FILE EWN

Chan 83 N35°04.39' W77°02.70' 096° 53.2 NM to fld. 10/08W. NEW BERN (L) VOR/DME 113.6 EWN

HELIPAD H1: H100X100 (CONC) PERIMETER LGTS.

HELIPORT REMARKS: ACTIVATE Helipad perimeter lights only-CTAF.

ODELL WILLIAMSON MUNI (See OCEAN ISLE BEACH)

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ΙΔΡ

MUTSHINGTON

H-9C. 12H. L-36G

OXFORD

HENDERSON-OXFORD (HNZ) 4 NE UTC-5(-4DT) N36°21.70′ W78°31.75′

526 B S4 FUEL 100LL, JET A1+ NOTAM FILE HNZ RWY 06-24: H5002X97 (ASPH) S-30 MIRL 0.4% up SW

RWY 06: REIL. PAPI(P2L)-GA 3.3° TCH 26'. Trees.

RWY 24: PAPI(P2L)-GA 3.45° TCH 33'. Trees.

AIRPORT REMARKS: Attended 1300-2300Z‡, CLOSED Thanksgiving and Christmas days. Arpt phone number is 919-693-5769; for after hours svc call 919-603-0499. Rwy 24 has 30' unmarked p-line 1000' from thid on centerline. Rwy 24 has 60' drop off 325' from thid and 90' left and right from centerline. Rwy 06 200' from thid on both sides of centerline 6' drop off. Trees east of the arpt obscure the rotating bcn. MIRL Rwy 06-24 ops dusk-0400Z‡; after 0400Z ACTIVATE—CTAF, ACTIVATE REIL Rwv 06, PAPI Rwv 06 and Rwy 24-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.625 (919) 693-9516.

COMMUNICATIONS: CTAF/UNICOM 122.8

(R) RALEIGH APP/DEP CON 132.35 GCO 135.075 (RALEIGH APP)

RADIO AIDS TO NAVIGATION: NOTAM FILE DCA.

SOUTH BOSTON (L) VORTAC 110.4 SBV Chan 41 N36°40.50' W79°00.87' 134° 30.1 NM to fld. 530/05W.

HUNTSBORO NDB (MHW) 271 HXO N36°18.03'

W78°37.12' 057° 5.7 NM to fld. NOTAM FILE RDU. IL\$ 109.75 I-HNZ Rwy 06.

PENDY N34°42 98' W78°00 22' NOTAM FILE RDU NDB (MHW) 379 ACZ at Henderson Fld.

CHARL OTTE 1-35B

PERSON CO (See ROXBORO)

PIEDMONT TRIAD INTL (See GREENSBORO)

PINFHURST/SOUTHERN PINFS

MOORE CO (SOP) 3 N UTC-5(-4DT) N35°14.26′ W79°23.33′ 455 B S4 FUEL 100LL, JET A OX 3 Class IV, ARFF Index A

CHARL OTTE H-9C, 12G, L-35A, 36F

RWY 05-23: H5503X150 (ASPH-GRVD) S-30 D-58. HIRL 0.4% up SW

LOC only.

RWY 05: MALS. VASI(V4L)-GA 3.0° TCH 48'.

RWY 23: REIL. VASI(V4L)-GA 3.0° TCH 39'. Tree.

AIRPORT REMARKS: Attended 1300-0100Z‡. After 0000Z‡ ctc phone number posted on General Aviation entry way. Bird activity on and invof arpt Apr-Oct. PPR for unscheduled air carrier ops with more than 30 passenger seats; call arpt manager 910-692-3212. 12 hr PPR for jet ops conducted 0400-1100Z‡, ctc airport manager 910-692-3212. Noise abatement procedures in effect except in emergencies. Avoid overfly of residential area NE of arpt. Multiengine acft departing rwy 05 or 23 maintain heading until reaching 1500' MSL before turning. ACTIVATE HIRL Rwy 05-23,

WEATHER DATA SOURCES: AWOS-3 127.575 (910) 692-4287.

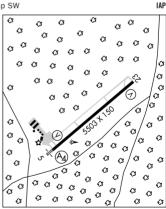
REIL Rwv 23 and twv lgts-CTAF. COMMUNICATIONS: CTAF/UNICOM 123.05

(R) FAYETTEVILLE APP/DEP CON 127.8 CLNC DEL 127.0

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93' W79°35.28' 085° 9.9 NM to fld. 590/03W.

ILS 111.5 I-SOP Rwy 05. Class IB. Loc unmonitored 0100-1300Z‡. Localizer unusable byd 30° left of centerline.



NOTAM FILE SOP

PINK HILL (4W9) 1 E UTC-5(-4DT) N35°03.04′ W77°44.17′

144 B NOTAM FILE RDU

RWY 01-19: 2800X85 (TURF) LIRL (NSTD)

RWY 01: Thid dspicd 200'. Trees. RWY 19: Thid dspicd 200'. Fence.

AIRPORT REMARKS: Unattended. No line of sight between rwy ends. Arpt is under several military low level routes. Jet acft cross arpt under 500 feet in excess of 200 knots. +5' grape vineyards 50' left and right of centerline first half of Rwy 19. 65' trees 50' from rwy edges both sides south half of rwy. 40' trees 50' from E edge N half of rwy. Rwy 01–19 marked with yellow cones, dsplcd thids marked with 3 cones each side rwy. Rwy 01–19 NSTD LIRL; not FAA approved L–800 series. No thid lgts. Arpt rotating bcn OTS indef. LIRL Rwy 01–19 OTS indef. ACTIVATE LIRL Rwy 01–19—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.7

PITT-GREENVILLE (See GREENVILLE)

PK AIRPARK (See RAEFORD)

PLYMOUTH

DONALD'S AIR PARK INC (7NC) 8 SE UTC-5(-4DT) N35°44.01′ W76°40.18′
18 S5 FUEL JET A1+ NOTAM FILE RDU Not insp.

CHARLOTTE

CHARL OTTE

RWY 04-22: 4000X100 (TURF) LIRL (NSTD)

RWY 04: Trees. RWY 22: Thid dsplcd 800'.

AIRPORT REMARKS: Attended Mon-Sat 1300-2200Z‡, Sun 1800-2200Z‡. Heavy agricultural acft ops Mar-Nov. A and P avbl. Rwy 22 has marked pline at thid. Rwy 04-22 NSTD LIRL due to spacing of rwy lgts. ACTIVATE NSTD LIRL Rwy 04-22 call 252-809-9010.

COMMUNICATIONS: CTAF 122.9

PLYMOUTH MUNI (PMZ) 2 S UTC-5(-4DT) N35°48.65′ W76°45.50′

39 B **FUEL** 100LL, JET A1+ NOTAM FILE RDU

CHARLOTTE H-9C, L-35C

€3

RWY 03-21: H5500X75 (ASPH) S-25 MIRL

RWY 03: REIL. PAPI(P2L)—GA 4.0° TCH 30'. Trees.

RWY 21: REIL. PAPI(P2L)—GA 4.0° TCH 30'. Trees.

AIRPORT REMARKS: Attended 1300–2200Z‡. For fuel after hrs call 252–793–9801. Deer activity invof arpt. Arpt located 4.3 NM W of military restricted area. Safety problem due to fast military acft crossing arpt below 3000′ MSL enroute to restricted area. Crossings are unannounced. There are 17 based acft located adjacent to the arpt with twy access to ramp. ACTIVATE MIRL Rwy 03–21, REIL Rwy 03 and Rwy 21 and PAPI Rwy 03 and PAPI Rwy

COMMUNICATIONS: CTAF/UNICOM 122.8

21-CTAF.

WASHINGTON CENTER APP/DEP CON 135.5

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

COFIELD (L) VORTAC 114.6 CVI Chan 93 N36°22.37′ W76°52.29′ 180° 34.1 NM to fld. 70/09W.

C C €3 C3 C3 a 13 €3 €3 Œ €3 ß €3 **43** ß Œ 43 €3 €3 ¢ €3 €3 €3 Ø €3 a €3 a 0 €3 a €3 a €3 €3 €3 63 €3 a

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PNPF AFR

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(POB)(KPOB) AF 12 NW UTC-5(-4DT)
                                                          N35°10.25′ W79°00.87′
                                                                                                      CHARL OTTE
217 B TPA—See Remarks
                               Class I, ARFF Index Ltd.
                                                          NOTAM FILE POR Not insp
                                                                                                 H-9C. 12G. L-36F
RWY 05-23: H7501X150 (PEM-GRVD)
                                     PCN 58 F/B/W/T
                                                                                                        ΠΙΔΡ ΔΠ
                                                          HIRL 0.4% up SW
                           RWY 23: ALSF1. PAPI. Rgt tfc.
  RWY 05. RFII PAPI
RWY 049-229: H3000X60 (ASPH)
                                 PCN 27 F/A/W/T LIRL
  RWY 049: Rgt tfc.
MILITARY SERVICE: LGT HIRL located 16' from rwy edge.
                                                     JASU (A/M32A-86) 1(MA-1A)
                                                                                    FIIFI 18
  FLUID SP LPOX LOX
                       OIL 0-128—In can only, -133-148.
MILITARY REMARKS: See FLIP AP/1 Supplementary Arpt Remark. RSTD Phase II BASH 1 Sep-30 Nov due to increased
  migratory bird activity. Peak activity occurs 1 hr of SR and SS. Circle apch to Rwy 05 not authorized for formation
  during IMC. 24 hr PPR ctc AMOPS DSN 424-6508/09/10. All inbound acft with VIP ctc Comd Post 30 min out.
  Ctc Pope AMOPS with 3 hrs notice for CSTMS and AG. PPR except Distinguished Visitor acft DSN
  424-6508/09/10. PPR for AMC/explosive loaded acft DSN 424-7388, during normal duty hr, 24 hr prior notice
  required. Category E apch minimum unavbl due R5311 located 2.5 NM dep end Rwy 23. Twy leading to Golden
  Knights Ramp clsd to USAF C130 and larger acft due to twy width less than 75'. AMC/AFRC acft opr restricted
  during Bird Watch Condition Moderate (tkf or ldg permission only when dep and arr route avoid identified bird
  activity. No local IFR/VFR tfc pat activity) and Severe (tkf and ldg prohibited without OG/CC approval), ctc
  AMOPS for current Bird Watch Condition code. Expect full stop Idg during intense training periods. Parking spot
  P-13 clsd except for contingency opr. CAUTION Dense air tfc all quad, all alt. ILS glide slope antenna 30' high,
  1111' from apch end and 400' left of centerline Rwy 23. Frequent Low-Level Wind Shear sfc-2000',
  0800-1300Z±, Rwy 23 dep and Rwy 05 arr, avoid R5311, 2.5 NM west of Pope, Ctc Pope Twr for turns thru
  Sector IV. Twr 417' located 5780' bearing 205° from dep end Rwy 23/apch end Rwy 05. Hill 313 located 1297'
  bearing 170° from dep end Rwy 23/apch end Rwy 05. Twr 430' located 6878' bearing 220° from dep end Rwy
  23/apch end Rwy 05. Acft should exercise extreme caution when taxiing on the Green and Yellow Ramps due to
  wing tip clnc. Uncontrolled vehicles on twy and ramps. Afld lgtg intermittent between SS and SR due to local ngt
  vision device training, non-participating acft ctc control twr incr lgtg. IFC PAT TPA-Overhead 2000(1783), Rwy
  23 enter 3 NM initial, rgt break, No overhead Rwy 05, Portion of overhead not visible from twr. Rectangular
  1500(1283), Rwy 05 left tfc. Dep maintain 1500' or blo until dep end of rwy. CSTMS/AG/IMG CSTMS, AG avbl, 3 hr
  prior notice rar. MISC AMOPS DSN 424-6508/09/10. Afld mgr DSN 424-4546/6508. C910-394-6508/4546.
  fax extension 6516/6520. All acft opr on AMC mission, include JA/ATT will coordination rgr/park with 43
  AW/OSO DSN 424-7388 fax extension 7380. All inbound acft opr on AMC mission and all acft requiring IMT
  packages ctc Pope Comd Post. First 1000' Rwy 23 and first 300' Rwy 05 are concrete. Mid 6200' asphalt.
  1000' keeled overrun, either end, may be used to begin tkf and for ldg rollout. Ctc ctl twr with intention to back
  taxi. When back taxiing, turning radius is located at end of sfc. See US Terminal Low IAPs, Airport Diagram.
  Engine runs will normally be conducted on Twy A and Twy M run-up areas. Romeo row will not be used for engine
  runs above idle speed. 60 day notice required for utilization of Pope AFB ramps for exercises. Ctc Pope AFB
  Enroute Ops, DSN 424-7388 for coordination and scheduling. Rwy 05-23 grooved. All inbound acft ctc twr on
  UHF. Rwy distance marker not avbl east side of rwy. Standard USAF RSRS applied except C-130 5000' during
  daytime. Request for concurrent servicing should be made to Pope Comd Post and approval is dependent upon
  mission need, station workload, and Crash/Fire/Rescue avbl. All acft carrying explosive cargo are rqr to pass
  the explosive class and the net explosive wt (NEW) to Pope Comd Post at inbound call. Inbound/outbound acft
  requiring IMT packages, ctc Pope Comd Post. Assault Strip panels are all international orange in color. All acft
  with non-aircrew passenger, ctc ATOC DSN 424-7303 upon arr and prior to dep. All acft rqr CSTMS and carrying
  personnel to include crew members that are not US mil (US mil defined as active duty, reserves or guard on
  active duty) must ctc Pope Comd Post at DSN 424-9000 or C(910) 394-9000 no later than five hrs prior to
  arrival to assure non-US cstms agent is in place upon arrival and excessive delays are avoided. This action is
  rgr despite prearrangements made with cstms officials. No COMSEC material avbl. Tran aircrews should plan to
  arrive with appropriate amount of COMSEC to complete entire mission. Storage avbl at airfield mgt up to and
  including Secret. All Tran aircrews shall store Top Secret material with 43 OSS/IN during duty hours. After
  normal duty hours, coordinate with Wing Command Post for proper storage of Top Secret material. Primary wx
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COMMUNICATIONS: D-ATIS 132.3 353.725 PTD 372.2

R FAYETTEVILLE APP/DEP CON 125.175 397.85 (271°-090°) 133.0 295.0 (091°-270°)

afld due to obstacle from observation point. Observation point obstacle 330°-090°.

TOWER 135.025 291.1 236.6X GND CON 124.55 275.8 **CLNC DEL** 275.8

POPE COMD POST 134.1X 257.1 381.3 PMSV METRO 344.6 Automated AN/FMQ-19 in use. Opr Mon-Thu 1000-0300Z‡, Fri 1000-2200Z‡ or end of local flying. Wx briefing DSN 424-6543/44.

sensors automated. During periods of back-up/manual prevailing visibility may not be representative of entire

CONTINUED ON NEXT PAGE

NORTH CAROLINA

CONTINUED FROM PRECEDING PAGE

AIRSPACE: CLASS C svc ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE POB.

(L) TACAN Chan 85 POB (113.8) N35°10.11′ W79°01.18′ at fld. 240/7W. No NOTAM MP Thu

1300-1600Z±.

TACAN azimuth unusable:

byd 30 NM blo 4,000' 331°-339 ° byd 17 NM

136°-151° 340°-358° byd 17 NM blo 4,000′

186°-191°

NDB (HW) 338 POB N35°13.61′ W78°57.26′ 228° 4.5 NM to fld. No NOTAM MP Fri 1300–1400Z‡.

IL\$ 110.9 I-POB Rwy 23. No NOTAM MP localizer Mon 1300–1600Z‡, glide slope Tue 1300–1600Z‡.

ATC protects FAA-defined ILS critical zone.

MLS Y Chan 622 M—PPN Rwy 23. No NOTAM MP Fri 1300–1600Z‡. Unusable 268°–188° byd 15 NM and 268°–188° blo 1.8°.

POTTERS HILL

EAGLES NEST (6N9) 0 SW UTC-5(-4DT) N34°58.93′ W77°41.90′

CHARLOTTE

CHARL OTTE

L-35A, 36F

IAP

115 NOTAM FILE RDU **RWY 13-31:** 1850X75 (TURF)

RWY 13: Trees. RWY 31: Road.

AIRPORT REMARKS: Unattended. VFR only. +4' fence 35' from centerline N side of rwy. Rwy 13 +6' bushes 10' from

thid on centerline. Rwy 13–31 marked with yellow cones. COMMUNICATIONS: CTAF 122.9

RAEFORD

PK AIRPARK (5W4) 3 NE UTC-5(-4DT) N35°01.19' W79°11.46'

BO4 B **FUEL** 100LL, JET A NOTAM FILE RDU

RWY 04-22: H3402X60 (ASPH) S-30 MIRL 0.4% up NE

RWY 04: Trees. RWY 22: Trees. Rgt tfc.

AIRPORT REMARKS: Attended 1300Z‡-dusk. CAUTION —Low flying

military acft in area; arpt located within a military ops area. Frequent parachute activity to target 300 ft SE of terminal apron. Acft in vicinity monitor 123.5. Monitor frequency 123.5 for parachute jumping activity. Fly 1 mile wide down wind leg to prevent conflicts with parachute jumping activity (Drop Zone SE

COMMUNICATIONS: CTAF/UNICOM 123.0

R FAYETTEVILLE APP/DEP CON 127.8

RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

from rwy.) Contact FSS prior to landing.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13′ W78°52.50′ 282° 15.7 NM to fld. 179/04W.

RALEIGH

TRIPLE W (5W5) 11 SW UTC-5(-4DT) N35°37.22′ W78°42.02′

CHARLOTTE

244 B S4 NOTAM FILE RDU **RWY 16-34**: H3004X40 (ASPH) LIRL (NSTD)

RWY 16: Trees. RWY 34: Trees.

AIRPORT REMARKS: Attended irregularly. Rwy 16–34 PAEW parallel twy. All acft over 6500 lbs. prohibited. Twr (500 AGL/826'MSL) approximately 1.75 NM NW of arpt. Be alert for rising terrain all quadrants. Rwy 16–34 has 4' dropoff 20' from pavement edge all sides. Twy not lgtd. 4 foot dropoff taxiway edge both sides—S end. Rwy 16–34 NSTD LIRL lgts 15 ft from edge of rwy; Rwy 16 thid lgts 150' from thid, Rwy 34 thid lgts 460' from thid. ACTIVATE LIRL—CTAF.

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COMMUNICATIONS: CTAF/UNICOM 122.7

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

RALEIGH/DURHAM (H) VORTACW 117.2 RDU Chan 119 N35°52.35′ W78°47.00′ 169° 15.6 NM to fld. 429/04W.

NORTH CAROLINA

CONTINUED FROM PRECEDING PAGE

AIRSPACE: CLASS C svc ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE POB.

(L) TACAN Chan 85 POB (113.8) N35°10.11′ W79°01.18′ at fld. 240/7W. No NOTAM MP Thu

1300-1600Z±.

TACAN azimuth unusable:

byd 30 NM blo 4,000' 331°-339 ° byd 17 NM

136°-151° 340°-358° byd 17 NM blo 4,000′

186°-191°

NDB (HW) 338 POB N35°13.61′ W78°57.26′ 228° 4.5 NM to fld. No NOTAM MP Fri 1300–1400Z‡.

IL\$ 110.9 I-POB Rwy 23. No NOTAM MP localizer Mon 1300–1600Z‡, glide slope Tue 1300–1600Z‡.

ATC protects FAA-defined ILS critical zone.

MLS Y Chan 622 M—PPN Rwy 23. No NOTAM MP Fri 1300–1600Z‡. Unusable 268°–188° byd 15 NM and 268°–188° blo 1.8°.

POTTERS HILL

EAGLES NEST (6N9) 0 SW UTC-5(-4DT) N34°58.93′ W77°41.90′

CHARLOTTE

CHARL OTTE

L-35A, 36F

IAP

115 NOTAM FILE RDU **RWY 13-31:** 1850X75 (TURF)

RWY 13: Trees. RWY 31: Road.

AIRPORT REMARKS: Unattended. VFR only. +4' fence 35' from centerline N side of rwy. Rwy 13 +6' bushes 10' from

thid on centerline. Rwy 13–31 marked with yellow cones. COMMUNICATIONS: CTAF 122.9

RAEFORD

PK AIRPARK (5W4) 3 NE UTC-5(-4DT) N35°01.19' W79°11.46'

BO4 B **FUEL** 100LL, JET A NOTAM FILE RDU

RWY 04-22: H3402X60 (ASPH) S-30 MIRL 0.4% up NE

RWY 04: Trees. RWY 22: Trees. Rgt tfc.

AIRPORT REMARKS: Attended 1300Z‡-dusk. CAUTION —Low flying

military acft in area; arpt located within a military ops area. Frequent parachute activity to target 300 ft SE of terminal apron. Acft in vicinity monitor 123.5. Monitor frequency 123.5 for parachute jumping activity. Fly 1 mile wide down wind leg to prevent conflicts with parachute jumping activity (Drop Zone SE

COMMUNICATIONS: CTAF/UNICOM 123.0

R FAYETTEVILLE APP/DEP CON 127.8

RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

from rwy.) Contact FSS prior to landing.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13′ W78°52.50′ 282° 15.7 NM to fld. 179/04W.

RALEIGH

TRIPLE W (5W5) 11 SW UTC-5(-4DT) N35°37.22′ W78°42.02′

CHARLOTTE

244 B S4 NOTAM FILE RDU **RWY 16-34**: H3004X40 (ASPH) LIRL (NSTD)

RWY 16: Trees. RWY 34: Trees.

AIRPORT REMARKS: Attended irregularly. Rwy 16–34 PAEW parallel twy. All acft over 6500 lbs. prohibited. Twr (500 AGL/826'MSL) approximately 1.75 NM NW of arpt. Be alert for rising terrain all quadrants. Rwy 16–34 has 4' dropoff 20' from pavement edge all sides. Twy not lgtd. 4 foot dropoff taxiway edge both sides—S end. Rwy 16–34 NSTD LIRL lgts 15 ft from edge of rwy; Rwy 16 thid lgts 150' from thid, Rwy 34 thid lgts 460' from thid. ACTIVATE LIRL—CTAF.

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COMMUNICATIONS: CTAF/UNICOM 122.7

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

RALEIGH/DURHAM (H) VORTACW 117.2 RDU Chan 119 N35°52.35′ W78°47.00′ 169° 15.6 NM to fld. 429/04W.

RALEIGH-DURHAM INTL (RDU) 9 NW UTC-5(-4DT) N35°52.66′ W78°47.25′ CHARL OTTE 435 B S4 FUEL 100LL, JET A OX 1, 2 LRA Class I, ARFF Index D H-9C, 12H, L-36F IAP, AD NOTAM FILE RDU RWY 05L-23R: H10000X150 (CONC-WC) S-30, D-190, ST-175, Rwv 14-32: 3570 X 100 DT-355, DDT-750 HIRL CL RWY 05L: MALSR. TDZL. PAPI(P4L)—GA 3.0° TCH 72'. 0.6% up. RWY 23R: ALSF2. TDZL. PAPI(P4L)-GA 3.0° TCH 68'. Rgt tfc. RWY 05R-23L: H7500X150 (ASPH-GRVD) S-30, D-176, ST-175, DT-335, DDT-750 HIRL CL 0.4% up NE RWY 05R: MALSR, PAPI(P4L)-GA 3.0° TCH 55', Rgt tfc. RWY 23L: MALSR. TDZL VASI(V4L)-GA 3.0° TCH 55'. RWY 14-32: H3570X100 (ASPH) S-12. MIRL RWY 32: REIL, VASI(V4L)-GA 3.5° TCH 29', Trees. RUNWAY DECLARED DISTANCE INFORMATION RWY 05L: TORA-10000 TODA-10000 ASDA-10000 LDA-10000 RWY 05R: TORA-7500 TODA-7500 ASDA-7500 LDA-7500 RWY 23L: TORA-7500 TODA-7500 ASDA-7500 LDA-7500 RWY 23R: TORA-10000 TODA-10000 ASDA-10000 LDA-10000 AIRPORT REMARKS: Attended continuously. Arpt CLOSED to airships. Four engine acft with wingspan over 171' and group V must use Rwy 05L-23R, Rwy 05L-23R southwest 3000' ungrooved and northeast 3000' ungrooved. Crane 75' AGL .76 NM from AER 05R. PPR for all military acft and unscheduled charter flights with 30 or more passengers. Military practice approaches require approval 24 hours prior notice required. Contact arpt ops 919-840-2111. Rwy 05R touchdown and rollout rwy visual range avbl. Rwy 23L touchdown and rollout rwy visual range avbl. Touchdown rwy visual range and rwy visibility value available Rwy 23L. Twy F between Twy T1 and T4 clsd to acft with wingspan greater than 135'. No jet engine maintenance runs between 0500-1100Z±. National Guard 24 hr PPR for jet acft and transit military acft—919-840-2111. No approval required for pushback at terminal gates unless acft rgrs use of rwy. Ctc ATC prior to pushing onto twy. Twy E behind south Cargo 4 and Twy J behind corporate hangars not visible from twr. Visibility of bcn shielded to the North. Flight Notification Service (ADCUS) avbl. WEATHER DATA SOURCES: ASOS (919) 840-0816. LLWAS. TDWR. COMMUNICATIONS: D-ATIS 123 8 IINICOM 122 95 RALEIGH FSS (RDU) on arpt. RCO 122.65 122.45 122.2 (RALEIGH RADIO) (R) APP CON 128.3 (230°-024°) 124.95 (025°-229°) R DEP CON 132.35 (230°-024°) 125.3 (025°-229°) TOWER 119.3 (West) Rwy 05L-23R 127.45 (East) Rwy 05R-23L and Rwy 14-32 **CINC DEL** 120 1 GND CON 121.9 (East) Rwy 05R-23L and Rwy 14-32 121.7 (West) Rwy 05L-23R AIRSPACE: CLASS C svc continuous ctc APP CON RADIO AIDS TO NAVIGATION: NOTAM FILE RDU. (H) VORTACW 117.2 RDU Chan 119 N35°52.35' W78°47.00' at fld. 429/04W. LEEVY NDB (HW/LOM) 350 LE N35°55.63′ W78°43.32′ 234° 4.4 NM to fld. GREON NDB (LOM) 382 RD N35°47.82′ W78°52.98′ 051° 6.7 NM to fld. Unmonitored. ILS/DME 109.1 I-GKK Chan 28 Rwy 05L. Class IA. Rwy 05R. Class IE. LOM GREON NDB. LOM unmonitored. ILS 109.5 I–RDU IIS 108 5 I-LEI Rwy 23L. Class IA. LOM LEEVY NDB. LOC unusable within 2.0 NM from thld. ILS/DME 111.7 I-DMP Chan 54 Rwy 23R. Class IIE. Inner Marker unmonitored. LOC unusable byd 20°

RAPIDS N36°26.46′ W77°42.50′ NDB (MHW) 407 RZZ at Halifax		WASHINGTON L-35C, 36G
REENO N36°04.26′ W80°10.01′	NOTAM FILE INT.	CINCINNATI
NDB (LOM) 317 IN 332° 4.6 NN	to Smith–Reynolds. (Unmonitored when tower closed).	L-25D, 36F

right of course.

REIDSVILLE

ROCKINGHAM CO NC SHILOH (SIF) 8 NW UTC-5(-4DT) N36°26.23′ W79°51.06′

694 B S4 **FUEL** 100LL, JET A1+ OX 2,3 NOTAM FILE SIF **RWY 13-31:** H5199X100 (ASPH) S-12.5, D-24 MIRL 0.5% up NW

H-9B, 12G, L-26J, 36F

CINCINNATI

RWY 13: PAPI(P2L)—GA 4.0° TCH 42′. Thid dsplcd 200′. Ground. RWY 31: REIL. PAPI(P2L)—GA 4.0° TCH 41′. Ground.

AIRPORT REMARKS: Attended 1300–2300Z‡. Arpt unattended

Christmas, New Years and Thanksgiving Day. Fuel avbl 24 hrs self svc. Deer on and invof arpt. 120 ft trees 1800 ft from Rwy 13 thld. ACTIVATE MIRL Rwy 13–31; PAPI Rwy 31 and REIL Rwy 31—CTAF.

 $\textbf{WEATHER DATA SOURCES:} \ AWOS-3\ 119.775\ (336)\ 573-3677.$

COMMUNICATIONS: CTAF/UNICOM 122.8

R GREENSBORO APP/DEP CON 124.35

RADIO AIDS TO NAVIGATION: NOTAM FILE GSO.

GREENSBORO (H) VORTAC 116.2 GSO Chan 109 N36°02.74′ W79°58.58′ 018°24.2 NM to fld. 879/03W. HIWAS.

SLAMMER NDB (MHW) 423 SIF N36°22.90′ W79°45.77′ 315° 54.4 NM to fld. NOTAM FILE RDU.

WARF (6A5) 3 SW UTC-5(-4DT) N36°19.01′ W79°42.49′

CINCINNATI

RWY 17-35: 2550X150 (CONC-TURF) S-8 LIRL (NSTD)

RWY 17: Trees. RWY 35: Trees.

AIRPORT REMARKS: Unattended. Deer on and invof arpt. For LIRL Rwy 17–35 call 336–349–2195. Rwy 17–35 NSTD LIRL, no thild lights on north end. Only south 2375' of rwy lighted. Most edge lights OTS indef. Rwy 17–35 concrete portion 900X18 at North end. Rwy 35 has uphill grade. Rwy 35 has more than 50' dropoff/downslope 35' from thild both sides.

COMMUNICATIONS: CTAF 122.9

RICHMOND CO (See ROCKINGHAM)

ROANOKE RAPIDS

HALIFAX CO (RZZ) 3 SW UTC-5(-4DT) N36°26.37′ W77°42.56′

256 B S4 **FUEL** 100LL, JET A1+ NOTAM FILE RZZ

RWY 05-23: H4006X75 (ASPH) S-30 MIRL

RWY 05: REIL. VASI(V2L). Trees.

RWY 23: REIL. VASI(V2L). Trees. RWY 16-34: 2100X150 (TURF)

RWY 16: Trees. RWY 34: Trees.

AIRPORT REMARKS: Attended Mon-Fri 1330-2230Z‡, Sat

1400–2200Z‡, Sun 0600–2200Z‡. Bird and deer activity on and invof arpt. –4 ft ground 105 ft from thId on centerline for Rwy 23. Rwy 16 turf Idg area marked with yellow cones. Rwy 05 and 23 VASI OTS indef. For VASI and REIL Rwy 05 and Rwy 23 key 122.8 5 times

WEATHER DATA SOURCES: ASOS 134.425 (252) 537-7971.

COMMUNICATIONS: CTAF 123.075 UNICOM 122.8

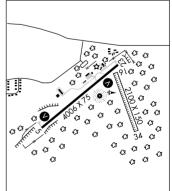
R WASHINGTON CENTER APP/DEP CON 132.02

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

TAR RIVER (L) VORTAC 117.8 TYI Chan 125 N35°58.61′ W77°42.23′ 004° 27.7 NM to fld. 70/05W.

RAPIDS NDB (MHW) 407 RZZ N36°26.46′ W77°42.50′ at fld. NOTAM FILE RZZ.

WASHINGTON L-35C, 36G Iap



WASHINGTON

HALIFAX-NORTHAMPTON RGNL (IXA) 8 S UTC-5(-4DT) N36°19.79′ W77°38.11′

H-9C, 12H, L-35C, 36G ΙΔΡ

145 B FUEL 100LL, JET A1+ NOTAM FILE RDU RWY 02-20: H5500X100 (ASPH) S-45, D65 HIRL

RWY 02: REIL. PAPI(P2L)-GA 3.0° TCH 25'. Trees.

RWY 20: REIL. PAPI(P2L)—GA 3.0° TCH 24'. Trees.

AIRPORT REMARKS: Attended Mon-Sat 1300-2200Z‡, Sun

1700-2200Z‡. 24 hrs self svc with credit card. For svc after hrs contact 252-673-2793. CLOSED New Years Day, Easter, Jul 4th, Thanksgiving, Christmas. Birds on and invof arpt. PAEW on and invof arpt for parallel two construction, 24 hrs access to pilots lounge, ctc 252-673-2793 for code. ACTIVATE HIRL Rwy 02-20 and PAPI Rwy 02 and Rwy 20, REIL Rwy 02 and Rwy 20-CTAF.

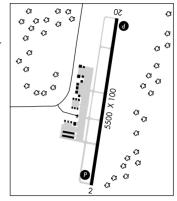
WEATHER DATA SOURCES: ASOS 119.975 (252)583-3446.

COMMUNICATIONS: CTAF/UNICOM 123.075

WASHINGTON CENTER APP/DEP CON 132.02

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

TAR RIVER (L) VORTAC 117.8 TYI Chan 125 N35°58.61' W77°42.23' 014° 21.4 NM to fld. 70/50W.



ROBESON N34°36.81′ W79°03.59′ NOTAM FILE LBT.

CHARL OTTE

CHARLOTTE

H-9C, 12G, L-25E, 35A, 36E

NDB (MHW) 359 RSY at Lumberton Muni. NDB unmonitored 0100-1300Z‡ Mon-Fri, 0000-1500Z‡ L-24J, 35A, 36E Fri-Sat, 0000-1300Z‡ Sun-Mon.

ROCKINGHAM

RICHMOND CO (RCZ) 3 S UTC-5(-4DT) N34°53.48′ W79°45.58′

358 B FUEL 100LL, A1+ NOTAM FILE RDU

RWY 13-31: H5000X100 (ASPH) S-30 MIRL

RWY 13: PAPI(P2L)-GA 3.15° TCH 34. Road.

RWY 31: REIL, PAPI(P2L)-GA 3.15° TCH 26', Thid dspicd 200'.

RWY 04-22: 3009X500 (TURF)

RWY 04: Trees. RWY 22: Trees.

AIRPORT REMARKS: Attended Mon-Sat 1230-2230Z‡. For arpt

attendant ngts and Sun call 910-895-6691, 100LL 24hr self-syc with credit card. Rwy 04-22 CLOSED to all turbine engine acft. Rwy 13 inadequate safety area 60 ft drop off 125 ft from thid both sides. ACTIVATE MIRL Rwy 13-31 and PAPI Rwys 13 and 31 and REII Rwv 31-CTAE

WEATHER DATA SOURCES: AWOS-3 118.775 (910) 997-4093.

COMMUNICATIONS: CTAF/UNICOM 122.8

(R) FAYETTEVILLE APP/DEP CON 127 8

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93' W79°35.28′ 207° 21.2 NM to fld. 590/03W.

ROSCOE NDB (MHW) 375 RCZ N34°51.16′ W79°41.62′ 3129

4 0 NM to fld

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ROCKINGHAM CO HELIPORT (See EDEN)

ROCKINGHAM CO NC SHILOH (See REIDSVILLE)

SE, 17 DEC 2009 to 11 FEB 2010

ROCKY MOUNT-WILSON RGNL (RWI) 7 SW UTC-5(-4DT) N35°51.38′ W77°53.52′ 159 B S4 FUEL 100LL, JET A OX 1 Class IV, ARFF Index A NOTAM FILE RWI

RWY 04-22: H7100X150 (ASPH-GRVD) S-62, D-75, ST-95, DT-140 HIRL H-9C, 12H, L-35B, 36G ΙΔΡ €3

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CHARL OTTE

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RWY 04: MALSR. PAPI(P4L)-GA 3.0°TCH 56'. RWY 22: REIL. PAPI(P4L)-GA 3.0°TCH 45'. Trees.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 04: TORA-7100 TODA-7100 ASDA-7100 LDA-7100 RWY 22: TORA-7100 TODA-7100 ASDA-6900 IDA-6900

AIRPORT REMARKS: Attended Mon-Fri 1100-0300Z‡, Sat-Sun 1200-0300Z±, CLOSED to air carrier opr with more than 30 passenger seats except with 24 hr PPR call arpt manager 252-446-7057, ACTIVATE HIRL Rwv 04-22; MALSR Rwv 04; and REIL Rwv 22-CTAF.

WEATHER DATA SOURCES: ASOS 118.875 (252) 446-0732. COMMUNICATIONS: CTAF/UNICOM 123.05

RCO 122.2 (RALEIGH RADIO) RCO 122.3 (RALEIGH RADIO)

R WASHINGTON CENTER APP/DEP CON 118.475

AIRSPACE: CLASS E svc 1300-2300Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

TAR RIVER (L) VORTAC 117.8 TYI Chan 125 N35°58.61' W77°42 23' 237° 11.7 NM to fld. 70/05W.

Rwy 04 Class IA. ILS unmonitored. I–RWI

COMM/NAV/WEATHER REMARKS: Clnc del provided by RALEIGH AFSS on frequency 122.3.



ROSCOE N34°51.16′ W79°41.62′ NOTAM FILE RDU. NDB (MHW) 375 RCZ 312° 4.0 NM to Richmond Co.

CHARLOTTE L-25E, 35A, 36E

ROVDY N35°43.99′ W80°29.37′ NOTAM FILE RUO. NDB (MHW/LOM) 275 RU 202° 5.4 NM to Rowan Co. CHARL OTTE L-25D, 36F

ROWAN CO (See SALISBURY)

ROXBORO

PERSON CO (TDF) 6 S UTC-5(-4DT) N36°17.08′ W78°59.08′ 609 B S2 FUEL 100LL, JET A1+ NOTAM FILE TDF

RWY 06-24: H6005X100 (ASPH) S-30 MIRL

RWY 06: REIL. PAPI (P2L)—GA 3.25° TCH 43'. Thid dspicd 304'. Trees.

RWY 24: REIL. PAPI (P2L)-GA 3.0° TCH 40'. Trees.

AIRPORT REMARKS: Attended 1300-2300Z‡. For svc after hrs call 336-504-3441 or 919-423-3554. Deer and birds on and invof arpt. ACTIVATE MIRL Rwy 06-24, REIL Rwy 06 and Rwy 24, and PAPI Rwv 06 and Rwv 24-CTAF.

WEATHER DATA SOURCES: AWOS-3 126.725 (336) 364-1651.

COMMUNICATIONS: CTAF/UNICOM 122.7

(R) RALEIGH APP/DEP CON 132.35

GCO 119.7 (RALEIGH CLNC)

RADIO AIDS TO NAVIGATION: NOTAM FILE DCA.

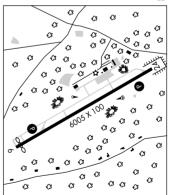
SOUTH BOSTON (L) VORTAC 110.4 SBV Chan 41 N36°40.50' 181° 23.4 NM to fld. 530/05W.

NDB (MHW/LOM) 220 HUR N36°14.00′ W79°03.95′ 060° 5.0 NM to fld. NOTAM FILE TDF.

ILS/DME 108.7 I-TDF Chan 24 Rwy 06. Class IB. LOM PERSON NDB. LOM unmonitored. ILS/DME unmonitored.

COMM/NAV/WEATHER REMARKS: AWOS-3 visibility information unreliable.

WASHINGTON H-9C, 12H, L-26K, 36G ΙΔΡ



RUTHERFORD CO-MARCHMAN FLD (See RUTHERFORDTON)

CHARL OTTE

H-9B, 12G, L-25D, 36E

RUTHERFORDTON

RUTHERFORD CO-MARCHMAN FLD (FQD) 3 N UTC-5(-4DT) N35°25.69' W81°56.11' CHARLOTTE 1077 B S4 FUEL 100LL, JET A1+ OX 1, 3 NOTAM FILE FOD H-9B. 12G. L-25C RWY 01-19: H5000X100 (ASPH) S-12.5 MIRL 0.4% up N ΙΔΡ

RWY 01: REIL, PAPI(P2L)—GA 3.0° TCH 29', Trees.

RWY 19: PAPI (P2L)-GA 3.5° TCH 20'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2300Z‡, Sat

1400-2200Z‡, and Sun 1800-2200Z‡. For svc after hrs call 828-287-0800, Deer invof arpt, 100' dropoff 230' from thid Rwy 01. ACTIVATE MIRL Rwy 01-19 and REIL Rwy 01-CTAF after 0300Z‡. PAPI Rwy 01 and Rwy 19 on 24 hrs.

WEATHER DATA SOURCES: AWOS-3 118.275 (828) 287-6498.

COMMUNICATIONS: CTAF/UNICOM 122.8

R GREER APP/DEP CON 119.4 (1100-0445Z±)

ATLANTA CENTER APP/DEP CON 119.575 (0445-1100Z±)

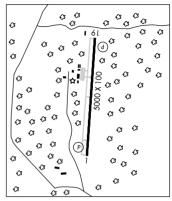
RADIO AIDS TO NAVIGATION: NOTAM FILE AND.

SPARTANBURG (H) VORTAC 115.7 SPA Chan 104 N35°02.02'

W81°55.62′ 001° 23.6 NM to fld. 910/02W.

NDB (MHW) 344 RFE N35°20.94′ W81°57.17′ 015° 4.8 NM to fld. NOTAM FILE FOD.

ILS/DME 109.55 I-FOD Chan 32(Y) Rwv 01.



SALISBURY

ROWAN CO (RUQ) 3 SW UTC-5(-4DT) N35°38.75′ W80°31.22′ 772 B S4 FUEL 100LL, JET A1 + OX 4 NOTAM FILE RUQ RWY 02-20: H5501X100 (ASPH) S-16 MIRL

RWY 02: REIL, PAPI(P2L)-GA 3.0° TCH 38', Trees.

RWY 20: MALSR. REIL. PAPI(P2L)-GA 3.0° TCH 39'.

AIRPORT REMARKS: Attended 1300-0100Z‡. 24 hr self-service avbl for 100LL with credit card. Tran mil fuel, Lgtd park, ramp clsd to all tfc except military acft with PPR. Operational Mon-Fri 1200-2030Z[±] exc holidays, MIRL Rwy 02-20 preset low ints: to increase ints and ACTIVATE REIL Rwy 02 and Rwy 20; PAPI Rwy

02 and Rwy 20 and MALSR Rwy 20-CTAF. WEATHER DATA SOURCES: AWOS-3 118.175 (704) 637-6197.

COMMUNICATIONS: CTAF/UNICOM 122.8

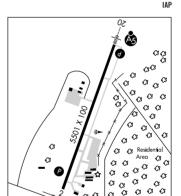
CHARLOTTE APP/DEP CON 128.32 **CHARLOTTE CLNC DEL** 127.35

RADIO AIDS TO NAVIGATION: NOTAM FILE CLT.

CHARLOTTE (L) VORW/DME 115.0 CLT Chan 97 N35°11.42' W80°57.11′ 043° 34.5 NM to fld. 733/05W. HIWAS.

ROVDY NDB (MHW/LOM) 275 RU N35°43.99′ W80°29.37′ 5.4 NM to fld. NOTAM FILE RUO.

I–RUO Rwy 20. Class IB. LOM ROVDY NDB. GS unusable byd 4° right of course and byd 7° left of course.



SAMPSON CO (See CLINTON)

SANDHILLS N35°12.93′ W79°35.28′ NOTAM FILE RDU.

(L) VORTAC 111.8 SDZ Chan 55 207° 21.2 NM to Richmond Co. 590/03W.

CHARL OTTE H-9C, L-25E, 35A, 36F

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VOR portion unusable:

026°-074° byd 10 NM blo 5,000';

075°-143°

144°-154° blo 60'.

144°-154° byd 23 NM

155°-179° blo 5 000′

RC0 122.1R 111.8T (RALEIGH RADIO)

180°-264° blo 8000′ 301°-019° bvd 10 NM blo 10.000′ **SANFORD-LEE CO RGNL** (TTA) 7 NE UTC-5(-4DT) N35°35.03′ W79°06.05′ CHARL OTTE 246 B S4 FUEL 100LL, JET A1+ OX 3 NOTAM FILE TTA H-9C, 12G, L-36F RWY 03-21: H6500X100 (ASPH) S-30, D-80 HIRL 0.3% up SW ΙΔΡ RWY 03: MALSR. PAPI(P4L)-GA 3.0° TCH 45'. Trees. RWY 21: REIL. PAPI(P4L)—GA 3.0° TCH 45'. Trees. AIRPORT REMARKS: Attended 1200-0000Z‡. For svc after hrs call 919-770-5945. ACTIVATE HIRL Rwy 03-21, MALSR Rwy 03 and REIL Rwy 21—CTAF. PAPI Rwy 03 and Rwy 21 on continuously. WEATHER DATA SOURCES: AWOS-3 120.625 (919) 708-5382. COMMUNICATIONS: CTAF/UNICOM 123.075 R RALEIGH APP/DEP CON 125.3 GCO 135.075 (RALEIGH CLNC) RADIO AIDS TO NAVIGATION: NOTAM FILE RDU. SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93′ W79°35.28′ 050° 32.5 NM to fld. 590/03W. LEECO NDB (MHW/LOM) 406 TT N35°29.84′ W79°08.40′ 028° 5.5 NM to fld.

ILS/DME 110.75 I-TTA Chan 44(Y) Rwy 03. LOM LEECO NDB.

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SEYMOUR JOHNSON AFB
                          (GSB)(KGSB) AF 3 SE UTC-5(-4DT) N35°20.36′ W77°57.64
                                                                                                      CHARL OTTE
  109 B TPA—See Remarks Class I, ARFF Index A NOTAM FILE RDU Not insp.
                                                                                             H-9C. 12H. L-35B. 36F
  RWY 08-26: H11760X300 (CONC-GRVD) PCN 56 R/C/W/T HIRL
                                                                                                        ΠΙΔΡ ΔΠ
                                          RWY 26: ALSF1. PAPI(P4L). Rgt tfc. 0.3% down
    RWY 08: ALSF1, PAPI(P4L), Rgt tfc.
  RUNWAY DECLARED DISTANCE INFORMATION
    RWY 08: TORA-11760 TODA-11760 ASDA-11760
    RWY 26: TORA-11760 TODA-11760 ASDA-11760
  MATSAS/AND SUITSANAN
    RWY 08 ←HOOK BAK-12A(B) (36' OVRN) HOOK BAK-12B(B) (1490')
                                               HOOK BAK-12B(B) (1490') HOOK BAK-12A(B) (52' OVRN) →RWY 26
  MILITARY SERVICE: LGT Rwy 08-26 gated thid lgt.
                                                A-GEAR BAK-12B(B) always in place.
                                                                                   JASU 8(M32A-60A/B)
    5(M32A-86) 1(MC-11) 1(MC-1A) FUEL J8 FLUID SP PRESAIR LPOX LOX 24 hr prior notice for LOX syc
           OIL 0-148 SOAP
    TRAN ALERT AvbI Mon-Fri 1200-0400Z‡, standby all other times. Expect 1-2 hr svc/refuel delays weekend,
    holiday, peak periods and limited maintenance. Limited fleet syc aybl for military acft only, 50 gallon max per
    load for layatory
  MILITARY REMARKS: Opr 1200-0430Z‡. See FLIP AP/1 Supplementary Arpt Remark. RSTD Transient acft expect full
    stop Idg during local flying period. PPR ctc Base OPS 24 hr prior notice DSN 722-4097/4098,
    C919-722-4097/4098. Twy B, G, and J avbl to fighter acft only when arm/de-arm in use. Twy A not avbl to acft
    with wingspan larger than a C-130 (133') between Twy G and Twy J. Twy F no acft larger than C130. Twy E clsd
    until further notice. Twy G ltd to KC135 323,000 lbs or less and F15 65,000 lbs or less. Twy H clsd. PPR
    required for all acft to include distinguished visitors, hazardous cargo and air evacuation regardless of affiliation
    for notification and coordination purposes. 72 hr prior notice rgr for all acft carrying hot cargo. CAUTION Trees
    3000' E of apch end Rwy 26. Uncontrolled vehicle tfc on twy and apron. Bird hazard. Reduced jet blast between
    park rows on F-15 ramp. Minimum jet blast clearance provided for large acft on translet ramp. Expect heavy
    blackbird activity during summer and fall. Peak activity usually begins 1 hr prior to SR and SS. Waste water
    treatment pond facility off W end of rwy attracts significant number of waterfowl. TFC PAT TPA-1300(1191)
    CSTMS/AG/IMG Limited customs avbl, prior coordination rgr. Facility for handling contaminated AG waste limited.
    MISC Fighter acft expect reduced rwy separation, Day, VFR—3000' between similar acft, 6000' between
    dissimilar acft. Variation exist for different type opr. Transient acft must notify twr on initial ctc if reduced rwy
    separation is not desired. Rwy 08-26 first 1000X300 conc each end. Center 75' conc with 112' asphalt edges,
    grooved. Heavy acft should exercise caution when taxiing on C135 ramp due to minimum wingtip clnc. All
    inbound acft with VIP ctc consolidated Command Post when 60 NM out. Heavy equipment land long over
    BAK-12s, if unavailable to ctc Base OPS 30 min prior. No COMSEC material avbl. Transient aircrews should plan
    to arrive with appropriate amount of COMSEC to complete entire mission. No COMSEC storage avbl at Base
    OPS. All transient aircrews shall store top secret material at Wing Command Post. Non-standard markings exist
    on the hot cargo pad for motorcycle safety course. Dimension of markings are contained in a 120' x 220' box
    located south of the taxi line using a yellow and white paint marking scheme. Runway Condition
    Reading/Runway Surface Covering not reported by Seymour Johnson Base Wx. Current RSC/RSC information
    avbl via Pilot-to-Dispatch 372.2/134.9 and ATIS 317.625.
  COMMUNICATIONS: SFA ATIS 317.625 (1200-0430Z±) PTD 372.2
 \textcircled{R} APP CON 119.7 273.6 (111°-257°) 123.7 290.9 (258°-110°) (1200-0430Z‡), other times ctc
      WASHINGTON CENTER APP CON 135.5 272.75
                                             GND CON 138.1 275.8 CLNC DEL 128.025 270.8
    TOWER 126.25 370.875 (1200-0430Z±)
 R DEP CON 119.7 338.6 (South) 123.7 320.1 (North) 290.9 273.6 (0430-1200Z‡), other times ctc
      WASHINGTON CENTER DEP CON 135.5 272.75
    4FW COMD POST (RAYMOND 25) 311.0 321.0 (Have QUICK timing unavbl)
    916 ARW COMD POST (LIGHTHOUSE CON) 311.0 PMSV METRO 323.925 Augmented AN/FMQ-19 in use. Wx svc avbl
      daily as indicated by local mission schedule. Full svc avbl 9 OWS Shaw AFB DSN 965-0939/0940/0941,
      C803-895-0588, Full svc avbl 26 OWS Barksdale AFB, DSN 781-4775, C318-456-4775,
      ACC SOF (LION SOF) 376.1
  RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.
    (L) TACAN Chan 112 GSB (116.5) N35°20.11′ W77°58.28′
                                                                   at fld. 82/8W. Unmonitored 0430-1200Z‡.
      No NOTAM MP Mon and Fri 0500-1030Z‡ (1500/3+1).
    ILS 109.3 I-GSB
                        Rwv 08.
                                     Unmonitored 0430-1200Z‡, No NOTAM MP Mon-Fri 0500-1030Z‡
      (3000/5+1) 1400-1600Z‡ wkend.
                          Rwy 26. Unmonitored 0430-1200Z‡. No NOTAM MP Mon-Fri 0500-1030Z‡
    ILS 109.9
               I-DDX
      (3000/5+1)
    PΔR
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COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima, ATIS No NOTAM MP Fri 0900-1100Z±.

SHELBY-CLEVELAND CO RGNL (EHO) 3 SW UTC-5(-4DT) N35°15.35′ W81°36.05′ 847 B S4 FUEL 100LL, JET A1+ NOTAM FILE RDU RWY 05-23: H5002X100 (ASPH) S-21 MIRL RWY 05: PAPI(P2L)-GA 3.0° TCH 41'. Trees. RWY 23: PAPI(P2L)-GA 3.0° TCH 28'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡, Sat

1500-2000Z‡, Sun 1800-2100Z‡. Fuel avbl 24 hrs self-svc with credit card. For svc after hrs call 704-284-3321. Rwy 05 has 45' dropoff 100' from thid. Rwy 23 has 35' dropoff 600' from thid. After 0300Z±, ACTIVATE MIRL Rwv 05-23-CTAF, PAPI Rwv 05

and Rwy 23 on continuously.

WEATHER DATA SOURCES: AWOS-3 118,425 (704) 487-0100.

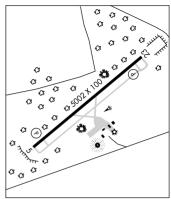
COMMUNICATIONS: CTAF/UNICOM 122.8

CHARLOTTE APP/DEP CON 134.75

RADIO AIDS TO NAVIGATION: NOTAM FILE AND.

SPARTANBURG (H) VORTAC 115.7 SPA Chan 104 N35°02.02' 052° 20.9 NM to fld. 910/02W.

FIRST RIVER NDB (MHW) 417 SLP N35°15.16' W81°35.93' at fld. NOTAM FILE RDU.



CHARL OTTE

CHARL OTTE

IAP

H-9B, 12G, L-25D

SHIFLET FLD (See MARION)

SILER CITY MUNI (5W8) 3 SW UTC-5(-4DT) N35°42.27′ W79°30.24′

614 B S4 FUEL 100LL, JET A1+ NOTAM FILE RDU

RWY 04-22: H5000X75 (ASPH) S-25 MIRL 0.3% up NE RWY 04: PAPI(P2L)-GA 4.0° TCH 40'. Tree.

RWY 22: PAPI(P2L)-GA 3.0° TCH 30'. Trees.

AIRPORT REMARKS: Attended Mon-Sat 1400-2200Z‡, Sun

1700-2200Z‡. After hrs fuel or svcs call 919-545-0138 or 919-619-2707. Fuel 100LL avbl 24 hrs self svc. Deer and birds on and invof arpt. MIRL Rwy 04-22 preset low ints dusk-0500Z‡; to increase ints and ACTIVATE after 0500Z‡-CTAF. PAPI Rwy 04 and 22 opr continuously.

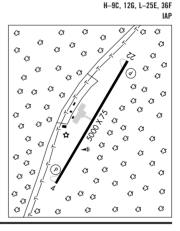
COMMUNICATIONS: CTAF/UNICOM 122.7

R GREENSBORO APP/DEP CON 118.5

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

LIBERTY (L) VORTAC 113.0 LIB Chan 77 N35°48.70' 143° 8.3 NM to fld. 830/03W. W79°36.76'

NDB (MHW) 371 TOX N35°45.69' W79°27.74' 218° 4.0 NM to fld.



SIMMONS AAF (FORT BRAGG) (FBG)(KFBG) A 1 E UTC-5(-4DT) N35°07.92′ W78°56.17′ CHARLOTTE 244 B TPA—See Remarks NOTAM FILE FBG Not insp. H-9C, 12G, L-35A, 36F PCN 20 F/A/W/T ΠΙΔΡ ΔΠ RWY 09-27: H5011X110 (ASPH) MIRI

RWY No. Thid depict 705'

RWY 27: REIL. PAPI(P2L)-GA 2.9° TCH 39'. Thid dsplcd 197'.

MILITARY SERVICE: FUEL J8 PPR 24 hr.

MILITARY REMARKS: Opr Mon-Fri 1200-0400Z‡ Sat-Sun 1200-2000Z‡, CLOSED holidays. When twr and/or surface visibility is blo 4 SM the lesser value will be reported as prevailing. See FLIP AP/1 Flt Hazard and Supplementary Arpt Remark. RSTD 24 hr PPR for remain overnight and all civil acft, DSN 236-7804, C910-396-7804. No Haz Cargo area avbl. CAUTION Bird hazard. Arpt perimeter lgt may cause pilot distraction. TFC PAT TPA—Fixed-wing 1250(1006), rotary-wing 1000(756). MISC Pilots notify Simmons OPS 20 minutes out with Code 6 or aby on board. All acft ctc GND CON prior to engine start, All wheeled rotary-wing acft gnd taxi until reaching twy, No refuel avbl on VIP spots.

COMMUNICATIONS: ATIS 139.25

R FAYETTEVILLE APP/DEP CON 133.0 295.0

TOWER 125.9 240.625 (Mon 0510Z‡-Sat 0400Z‡, clsd holidays) GND CON 121.9 229.4

FLT ADVISORY 125.9 240.625 PMSV METRO 141.25 265.6 (Mon 0400Z‡-Sat 0400Z‡, clsd holidays. Full svc during opr hr. other times remote briefing from 26 OWS Barksdale AFB, LA, DSN 781-4775, C318-456-4775. BASE OPS 142.35 245.5

AIRSPACE: CLASS D syc Mon 0510Z‡-Sat 0400Z‡, clsd holidays, other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE FAY.

FAYETTEVILLE (L) VOR/DME 108.8 FAY Chan 25 N34°59.13′ W78°56.38′ 273° 6.1 NM to fld. 179/04W. FORT BRAGG NDB (MHW) 393 FGP N35°08.33′ W78°48.75′ 273° 6.1 NM to fld. NOTAM FILE FBG. Unmonitored Mon-Fri 0400-1200Z‡, Sat-Sun and holidays 2000-1200Z‡. No NOTAM MP 1st Mon 1300-1330Z±.

ASR/PAR Mon-Fri 1200-0400Z±, clsd holidays)

COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima.

SKY MANOR (See JACKSONVILLE)

SLAMMER N36°22.90′ W79°45.77′ NOTAM FILE RDII

NDB (MHW) 423 SIF 315° 5.4 NM to Rockingham Co NC Shiloh. NDB unmonitored.

CINCINNATI L-26J, 36F

SMITHFIELD

JOHNSTON CO (JNX) 3 NW UTC-5(-4DT) N35°32.46′ W78°23.42′ 164 B S4 FUEL 100LL, JET A1+ TPA-1199(1035) NOTAM FILE JNX RWY 03-21: H5500X100 (ASPH) S-65, D-65 MIRL 0.3% up NE

CHARLOTTE H-9C, 12G, L-35B, 36F IAP

RWY 03: MALSR. PAPI(P4L)—GA 3.0° TCH 45'. Trees.

RWY 21: REIL. PAPI(P4L)-GA 4.0° TCH 49'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1200-0000Z‡, Sat and Sun 1300-2300Z‡. Unattended Thanksgiving and Christmas day. Deer on and invof arpt. Be alert when taxiing near south ramp/corporate hangar. Rwy 03-21 30' dropoff 350' from Rwy 21 thld to left and right of centerline. 50' AGL twr 200' SW of Rwy 03 centerline. Avoid overflights of housing area in tfc pattern for noise abatement. Fly wider down winds and longer dep legs. Between 0130-1100Z‡ ACTIVATE MIRL Rwy 03-21, MALSR Rwy 03, REIL Rwy 21, PAPI Rwy 03 and Rwy 21, and twy Igts-CTAF. WEATHER DATA SOURCES: AWOS-3 120,225 (919) 934-3851.

COMMUNICATIONS: CTAF/UNICOM 122.8

R RALEIGH APP/DEP 125.3

GCO 135.075 (RALEIGH CLNC and FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

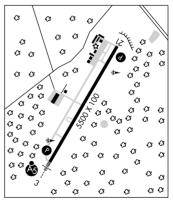
RALEIGH/DURHAM (H) VORTACW 117.2 RDU Chan

119 N35°52.35′ W78°47.00′ 140° 27.6 NM to fld. 429/04W.

JNALL NDB (MHW) 251 EUU N35°36.41′ W78°21.27′ 211° 4.3 NM to fld. NDB unmonitored 2200-1300Z‡. JURLY NDB (MHW/LOM) 263 JN N35°28.50′ W78°25.52′ 032°4.3 NM to fld. NOTAM FILE JNX. NDB unmonitored 2200-1300Z‡. NDB unusable byd 15 NM.

ILS/DME 111.15 I-JNX Chan 48(Y) Rwy 03. Class IB. LOM JURLY NDB. JURLY (JN) NDB unmonitored 2200-1300Z‡. ILS GS/LOC unmonitored 2200-1300Z‡. DME unmonitored. JURLY(JN) NDB unusable byd 15 NM. OM OTS indef.

SMITH REYNOLDS (See WINSTON SALEM)



SOUTHEAST GREENSBORO (See GREENSBORO)

SPRUCE PINE

AVERY CO/MORRISON FLD (7A8) 4 NE UTC-5(-4DT) N35°56.67' W81°59.74'

CHARLOTTE 1-25C

2750 S4 **FUEL** 100LL, JET A NOTAM FILE RDU

RWY 17-35: H3000X50 (ASPH) S-12.5

RWY 17: Building. Rgt tfc. RWY 35: Trees.

AIRPORT REMARKS: Attended Tue-Fri 1400-2200Z‡, Sat 1600-2300Z‡, Sun 1800-2300Z‡. CLOSED on Mon. Self-svc fueling after hrs with credit card. JET A with additive premixed. FBO svc avbl. Arpt rstd to VFR only. Rwy 35 mountainous terrain above rwy elevation – 6000' from rwy end – 650' above rwy elevation – on centerline. Rwy 35 has 60' dropoff 200' from thld and 60' dropoff 70' left of centerline. Rwy 17 has 40' dropoff 300' from thld. Military ops in and around vicinity of arpt. Wildlife in and around vicinity of arpt. Gravel mining ops west of and adjacent to rwy. High terrain all quadrants, daylight VFR ops only, Rwy 35 uphill grade, Rwy 17 rgt traffic

preferred for takeoff. Rwy 17 preferred for tkfs – Rwy 35 preferred for landings. Arpt phone number 828–766–8187

828-766-8187.

COMMUNICATIONS: CTAF/UNICOM 123.0

RADIO AIDS TO NAVIGATION: NOTAM FILE BNA.

HOLSTON MOUNTAIN (L) VORTAC 114.6 HMV Chan 93 N36°26.22′ W82°07.78′ 172° 30.2 NM to fld. 4321/04W.

STALS N35°14.64′ W77°41.90′ NOTAM FILE ISO.

CHARLOTTE

NDB (LOM) 276 IS 049° 6.8 NM to Kinston Rgnl Jetport At Stallings Fld.

STANLY CO (See ALBEMARLE)

STAR

MONTGOMERY CO (43A) O NE UTC-5(-4DT) N35°23.08' W79°47.42'

CHARLOTTE L-25E. 36F

628 B S4 FUEL 100LL, JET A NOTAM FILE RDU RWY 03-21: H4001X75 (ASPH) S-11.4 MIRL

RWY 03: Trees. RWY 21: Thid dspicd 460'. Trees.

thid Rwy 21 across

AIRPORT REMARKS: Attended 1300–2200Z‡. Deer occasionally on rwy. 40' p-line 350'-750' from thid Rwy 21 across and left of centerline. 20'-25' depressed area 180' S of Rwy 03 thid on centerline. Rwy 03 has uphill grade.

COMMUNICATIONS: CTAF/UNICOM 122.8

Radio aids to navigation: Notam file RDU.

SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93′ W79°35.28′ 319° 14.2 NM to fld. 590/03W.

STATESVILLE RGNL (SVH) 3 SW UTC-5(-4DT) N35°45.90′ W80°57.23′ 968 B S4 **FUEL** 100LL, JET A, JET A1+ OX 1,3 TPA—1768(800)

CHARLOTTE H-9B, 12G, L-25D

NOTAM FILE SVH RWY 10-28: H7006X100 (ASPH) S-30, D-100 HIRL

RWY 10: REIL. PAPI(P2L)—GA 3.0° TCH 61'. Thid dspicd 1000'.

Trees.

RWY 28: MALSR. PAPI(P2L)—GA 3.0° TCH 57'. Thid dspicd 550'. Trees

RUNWAY DECLARED DISTANCE INFORMATION

RWY 10: TORA-7006 TODA-7006 ASDA-6456 LDA-5456 RWY 28: TORA-7006 TODA-7006 ASDA-6006 LDA-5456

AIRPORT REMARKS: Attended Mon-Fri 1100-0200Z‡, Sat-Sun

1300–0200Z‡. For after hrs svc call (704) 236–3319 or (704) 987–8679. Rwy 28 has 100' drop-off 250' right of centerline. ACTIVATE REIL Rwy 10, MALSR Rwy 28, PAPI Rwy 10 and Rwy 28—CTAF. HIRL Rwy 10–28 preset on med ints dusk-0400Z‡, to increase inst ACTIVATE—CTAF. After 0400Z‡ ACTIVATE HIRL Rwy 10–28—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.225 (704) 873-1978.
COMMUNICATIONS: CTAF/UNICOM 123.075

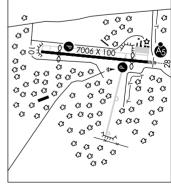
R ATLANTA CENTER APP/DEP CON 125.15

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

BARRETTS MOUNTAIN (L) VOR/DME 110.8 BZM Chan 45 N35°52.13′ W81°14.43′ 120° 15.3 NM to fid. 1880/06W.

ILS/DME 111.75 I—SVH Chan 54(Y) Rwy 28. LOC unusable byd 20° right of course.

COMM/NAV/WEATHER REMARKS: AWOS—3 wind unavailable.



STONIA N35°11.48′ W81°09.43′ NOTAM FILE RDU.

NDB (MHW) 260 GHJ at Gastonia Muni. NDB unmonitored 2330-1130Z during standard time, 2330-1030Z during daylight savings time.

CHARL OTTE L-25D, 36E

SUGARLOAF MOUNTAIN N35°24.39′ W82°16.12′ NOTAM FILE RDU.

ATLANTA

(L) VORTAC 112.2 SUG Chan 59 280° 13.5 NM to Asheville Rgnl. 3970/02W. RCO 122.3 122.2 122.1R 112.2T (RALEIGH RADIO)

L-25C

SUGAR VALLEY (See MOCKSVILLE)

SWAN CREEK (See JONESVILLE)

SYLVA

JACKSON CO (24A) 3 SE UTC-5(-4DT) N35°19.05′ W83°12.60′

ATLANTA L-25B

2857 B FUEL 100LL TPA-3857(1000) NOTAM FILE RDU

RWY 15-33: H3003X50 (ASPH) S-12.5 HIRL

RWY 15: Tree. RWY 33: Trees.

AIRPORT REMARKS: Attended irregularly. For assistance call 828-508-6954, Self-service fuel avbl 24 hrs with credit card. Rwv 15, 300' dropoff 300' from thid both sides and 90' left and right of centerline along rwv. Rwv 33. 300' dropoff 200' from thid 50' left of centerline. Mountain hazard bcn lgts located on mountain range approximately 1.7 miles SSW of arpt. Rwy 33 numbers smaller than standard, ACTIVATE HIRL Rwy 15-33-CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.0

SNOWBIRD (L) VORTAC 108.8 SOT Chan 25 N35°47.41′ W83°03.14′ 199° 29.4 NM to fld. 4239/04W.

TARBORO-EDGECOMBE (ETC) 2 N UTC-5(-4DT) N35°56.23′ W77°32.80′

CHARL OTTE L-35C, 36G

53 B NOTAM FILE RDU

RWY 09-27: H4000X60 (ASPH) MIRL

RWY 09: PAPI(P2L)—GA 4.0° TCH 28', Thid dsplcd 200', Trees. RWY 27: REIL. PAPI(P2L)-GA 3.0° TCH 38'. Trees.

AIRPORT REMARKS: Unattended. Deer on and invof arpt. 500' low level route 3 miles NE of arpt—be alert for military acft invof arpt. ACTIVATE MIRL Rwy 09-27, REIL Rwy 27 and PAPI Rwy 09 and Rwv 27-CTAF

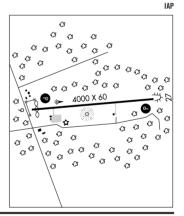
COMMUNICATIONS: CTAF 122.9

WASHINGTON CENTER APP/DEP CON 118.475

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

TAR RIVER (L) VORTAC 117.8 TYI Chan 125 N35°58.61' W77°42.23' 107° 7.7 NM to fld. 70/05W.

NDB (MHW) 257 ETC N35°56.13' W77°32.78' at fld. NDB unusable byd 18 NM.



TAR RIVER N35°58.61′ W77°42.23′ NOTAM FILE RDU.

(L) VORTAC 117.8 TYI Chan 125 237° 11.7 NM to Rocky Mt-Wilson Rgnl. 70/05W RCO 122.1R 117.8T (RALEIGH RADIO)

CHARLOTTE H-9C, L-35C, 36G

TAWBA N35°47.19′ W81°18.32′ NOTAM FILE HKY. NDB (MHW) 332 HK 243° 4.9 NM to Hickory Rgnl.

CHARLOTTE L-25D

THOMASVILLE

HIATT (N97) 3 SW UTC-5(-4DT) N35°49.81′ W80°06.45′

855 B S4 FUEL 100LL NOTAM FILE RDU

RWY 01-19: 2500X75 (TURF) LIRL

RWY 01: Trees. **RWY 19:** TRCV (TRIL)—GA 3.2° TCH 25'. Trees.

RWY 09-27: 1160X50 (TURF)

RWY 09: Trees. RWY 27: Trees.

AIRPORT REMARKS: Attended 1700Z‡-dusk. For fuel call 336–881–0248. Rwy 27 has +4′ fence 30′ from thid and 12′ building 70′ from thid on extended centerline. Rwy 09–27 used primarily for ultralights. Rwy uphill marked with yellow cones. Rwy 19 preferred for Idg uphill; rwy and thids marked with yellow cones. Acft monitor 122.9. ACTIVATE LIRL Rwy 01–19 and TRIL Rwy 19—CTAF.

COMMUNICATIONS: CTAF 122.9

TOMOTLA N35°06.99' W83°57.40' NOTAM FILE RDU.

NDB (MHW) 335 TTQ 045° 6.5 NM to Western Carolina Rgnl. (VFR ONLY)

ATLANTA L-25B

CHARLOTTE

TRANSYLVANIA COUNTY (See BREVARD)

TRI-COUNTY (See AHOSKIE)

TRIPLE W (See RALEIGH)

TRYON N35°09.49' W81°01.24' NOTAM FILE CLT.

NDB (LOM) 242 CL 056° 5.1 NM to Charlotte/Douglas Intl.

CHARLOTTE

TWIN LAKES (See MOCKSVILLE)

US HELIPORT (See WINGATE)

WADESBORO

ANSON CO (AFP) 3 N UTC-5(-4DT) N35°01.24′ W80°04.63′

300 B **FUEL** 100LL, JET A1+ NOTAM FILE RDU **RWY 16-34**: H5498X100 (ASPH) S-12, D-60 MIRL

RWY 16: REIL. PAPI(P2L)—GA 3.0° TCH 30'. Trees.

RWY 34: REIL. PAPI(P2L)-GA 3.0° TCH 29'. Trees.

AIRPORT REMARKS: Attended Mon–Fri 1300–2200Z‡. For after hrs svc call 704–848–4612. 100LL fuel–24 hr self–svc avbl with credit card. Deer in vicinity of arpt. Rwy 34 +6' hill from rwy end and 216' right of rwy centerline. Rwy 16–34 used for both aeronautical tow and auto launch for gliders. ACTIVATE MIRL Rwy 16–34, PAPI Rwy 16 and Rwy 34, and REIL Rwy 16 and Rwy 34—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.325. (704) 695-0623.

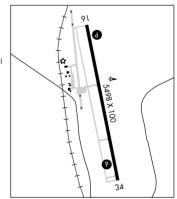
COMMUNICATIONS: CTAF/UNICOM 122.8

(R) CHARLOTTE APP/DEP CON 120.05

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

SANDHILLS (L) VORTAC 111.8 SDZ Chan 55 N35°12.93′ W79°35.28′ 247° 26.8 NM to fld. 590/03W.

CHARLOTTE H-9B, 12G, L-25E, 36E IAP



CHARLOTTE

CINCINNATI

L-25D, 36F

IAP

L-35B IAP

WALLACE

HENDERSON FLD (ACZ) 1 SW UTC-5(-4DT) N34°43.07′ W78°00.22′ 39 B S4 **FUEL** 100LL, JET A1+ NOTAM FILE RDU

RWY 09-27: H3998X75 (ASPH) S-12.5 MIRL

RWY 09: Thid dspicd 149'.Trees.

RWY 27: Thid dsplcd 151'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300–2200Z‡, Sat 1400–2300Z‡ and Sun 1800–2300Z‡. 24 hr self svc fuel with credit card. 24 hr access to pilots' lounge-door code on fuel receipt. Parachute Jumping.

COMMUNICATIONS: CTAF/UNICOM 122.8

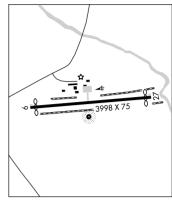
R WILMINGTON APP/DEP CON 135.75 (1100-0400Z‡)

R WASHINGTON CENTER APP/DEP CON 124.025 (0400-1100Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE ISO.

KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26′ W77°33.50′ 214° 44.9 NM to fld. 106/05W.

PENDY NDB (MHW) 379 $\,$ ACZ $\,$ N34°42.98' W78°00.22' $\,$ at fld. NOTAM FILE RDU.



WALNUT COVE

MEADOW BROOK FLD (N63) 1 NW UTC-5(-4DT) N36°18.09′ W80°08.90′

631 S4 **FUEL** 100LL NOTAM FILE RDU **RWY 16-34**: H2725X30 (ASPH) LIRL (NSTD)

RWY 16: Trees

AIRPORT REMARKS: Attended Mon-Fri 1300–2200Z‡. Arpt CLOSED to transients except PPR—336-591-7881. High terrain all quadrants. +8' dropoff AER 16. Fencing in the clear zone Rwy 16 and Rwy 34. Do not land on grass adjacent to rwy—deep ditches. No transient stopping tfc—will allow touch and go. Rwy 16–34

RWY 34: Trees.

NSTD LIRL; Igts 30' either side of asph along old turf rwy. 3 thld Igts with blue lens. +50' trees within 125' of centerline on west side of rwy. +65' trees within 110' of centerline east of rwy. ACTIVATE LIRL Rwy 16–34—CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.0

R GREENSBORO APP/DEP CON 124.35

RADIO AIDS TO NAVIGATION: NOTAM FILE GSO.

GREENSBORO (H) VORTAC 116.2 GSO Chan 109 N36°02.74′ W79°58.58′ 334°17.5 NM to fld. 879/03W

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WARF (See REIDSVILLE)

WARREN FLD (See WASHINGTON)

WASHINGTON

WARREN FLD (OCW) O NE UTC-5(-4DT) N35°34.23′ W77°02.99′

38 B FUEL 100LL, JET A1 + NOTAM FILE OCW RWY 17-35: H5000X150 (ASPH-CONC) S-22 MIRL

RWY 17: Thid dsplcd 501'. Pole. RWY 35: Trees.

RWY 05-23: H5000X100 (ASPH) S-30, D-38 MIRL

RWY 05: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Trees.

RWY 23: REIL VASI(V2L)—GA 3.0° TCH 40'. Thid dspicd 199'. Trees

RWY 11-29: H4000X150 (ASPH-CONC) S-22

RWY 11: Trees. RWY 29: Trees.

AIRPORT REMARKS: Attended Mon-Sat 1300–2300Z‡, Sun 1300–2200Z‡. CLOSED Thanksgiving and Christmas. For fuel after hrs call 252–975–9320. Rwy 11–29 CLOSED only when NOTAMs issued. Deer and birds on and invof arpt. Parachute Jumping. Loose aggregate/gravel on all rwys. Rwy 17–35 loose gravel, pot holes, cracks, pavement heaving and spalling, vegetation in rwy. Rwy 11–29 grass growing through cracks and small pot holes. pavement heaving and spalling. Twys not Igtd. Rwy 05 PAPI OTS indef. MIRL Rwy 05–23 preset on low ints, to increase ints and ACTIVATE MIRL Rwy 17–35, VASI Rwy 23, PAPI Rwy 05 and REIL Rwy 05 and Rwy 23 —CTAF.

WEATHER DATA SOURCES: AWOS-3 120.175 (252)975-6133.

COMMUNICATIONS: CTAF/UNICOM 122.7

R WASHINGTON CENTER APP/DEP CON 135.5

RADIO AIDS TO NAVIGATION: NOTAM FILE ISO.

KINSTON (L) VORTAC 109.6 ISO Chan 33 N35°22.26′ W77°33.50′ 069° 27.6 NM to fid. 106/05W.

CHOCOWINITY NDB (MHW) 388 RNW N35°30.58′ W77°06.40′ 044° 4.6 NM to fid. NOTAM FILE OCW.

ILS/DME 110.9 I-OCW Chan 46 Rwy 05. LOC only.

WAXHAW

JAARS-TOWNSEND (N52) 3 S UTC-5(-4DT) N34°51.83′ W80°44.88′

602 B **FUEL** 100LL, JET A NOTAM FILE RDU **RWY 04–22:** H3309X40 (ASPH) LIRL (NSTD)

RWY 04: Trees. RWY 22: Thid dspicd 200'. Trees.

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡. Deer on and invof arpt. Ultralight activity on and invof arpt. Rwy 04-22 has 20 ft down slope between ends. Rwy 04-22 NSTD LIRL, edge lgts 30 ft from pavement. Surface variations in rwy surface area. Rwy 04-22 markings NSTD size. Ngt tkf use Rwy 22. Ngt ldg use Rwy 04 unless wind dictates otherwise. ACTIVATE rotating bcn—CTAF. ACTIVATE LIRL Rwy 04-22—CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.0

R CHARLOTTE APP/DEP CON 120.05

RADIO AIDS TO NAVIGATION: NOTAM FILE CLT

 CHARLOTTE (L) VORW/DME 115.0
 CLT
 Chan 97
 N35°11.42′

 W80°57.11′
 158° 22.0
 NM to fld. 732/05W. HIWAS.

 FORT MILL (L) VORTAC 112.4
 FML
 Chan 71
 N34°59.34′

 W80°57.29′
 128° 12.7
 NM to fld. 645/02W. NOTAM FILE

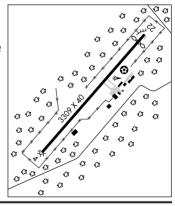
 $\rm W80^{\circ}57.29' - 128^{\circ}~12.7~NM$ to fld. 645/02W. NOTAM FIL AND. SHUTDOWN.

€3 €3 €3 Œ Ø **43** €3 L ~ رع ¢ ß 63 €3 C3 C3 63 a **(3** A 63 a **43** 4000 X 150 03 03 1 Δ a a Ø Ø €3 €3 €3 Δ C

CHARLOTTE

ΙΔΡ

H-9C. 12H. L-35C



WAYNE N35°31.57′ W77°54.02′ NOTAM FILE RDU.

NDB (MHW/LOM) 208 JYN 227° 5 NM to Goldsboro-Wayne Muni. Unmonitored. SHUTDOWN.

CHARLOTTE L-35B, 36G

CHARLOTTE

ΙΔΡ

L-24J. 25D. 36E

WESLEY N34°57.18′ W80°42.31′ NOTAM FILE EOY.

NDB (MHW) 204 TWL 052° 5.8 NM to Charlotte-Monroe Executive. NDB unmonitored 2200-1300Z‡. L-25D, 36E

CHARLOTTE

H-9C. 12G. L-35A

WHITEVILLE

COLUMBUS CO MUNI (CPC) 3 S UTC-5(-4DT) N34°16.37′ W78°42.90′

B FUEL 100LL, JET A1+ NOTAM FILE CPC

RWY 06-24: H5500X75 (ASPH) S-24, D-30 MIRL 0.5% up SW

RWY 06: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Trees.

RWY 24: VASI(V2L)-GA 3.0°TCH 37', Trees.

AIRPORT REMARKS: Attended Mon-Sat 1300-2300Z‡, Sun

1400-2300Z‡. Arpt unattended Christmas day. For emergency svc after hrs call 910-654-3389/642-0685. Deer on and invof arpt. Rwy 24 has 15' dropoff 200' from thid both sides. Rwy 06 REIL OTS indef. Rwy 24 VASI OTS indef. MIRL Rwy 06-24 opr dusk-0500Z±, after 0500Z± ACTIVATE MIRL Rwv 06-24-CTAF. ACTIVATE REIL Rwy 06-CTAF. PAPI Rwy 06 and VASI Rwy 24 on continuously.

WEATHER DATA SOURCES: AWOS-3 118.375 (910) 642-7508. COMMUNICATIONS: CTAF/UNICOM 122.8

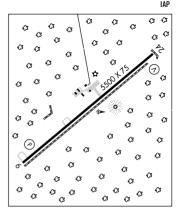
R MYRTLE BEACH APP/DEP CON 119.2 (1100-0400Z‡)

JAX CENTER APP/DEP CON 128.7 (0400-1100Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE FLO.

FLORENCE (H) VORTAC 115.2 FLO Chan 99 N34°13.98' W79°39.43' 090° 46.9 NM to fld. 110/03W. HIWAS.

CAMP NDB (MHW) 227 CPC N34°16.31′ W78°42.84′ at fld NOTAM FILE RDU, Unmonitored Mon-Sat 2300-1300Z‡ and Sun 2300-1400Z±.



WHITFIELD FARMS

(See HURDLE MILLS)

WILGROVE AIR PARK (See CHARLOTTE)

WILKESBORO N36°13.36′ W81°05.92′

RCO 122.4 (RALEIGH RADIO) at Wilkes Co.

WILKES CO (See NORTH WILKESBORO)

WILKI N36°06.77' W81°05.89' NOTAM FILE RDU.

NDB (MHW/LOM) 209 UKF 006°6.6 NM to Wilkes Co.

WILLIAMSTON N35°51 54' W77°10 68' NOTAM FILE RDU

NDB (MHW) 336 MCZ at Martin Co.

CINCINNATI CHARL OTTE

CINCINNATI

L-25D

L-25D

L-35C

WILLIAMSTON

MARTIN CO (MCZ) 6 W UTC-5(-4DT) N35°51.73′ W77°10.69′

76 B FUEL 100LL NOTAM FILE RDU

RWY 03-21: H5000X75 (ASPH) S-21 MIRL

RWY 03: VASI(V2L)-GA 3.7°TCH 25'. Road.

RWY 21: PAPI(P2L)—GA 3.0° TCH 24'. Trees.

AIRPORT REMARKS: Attended 1300-2200Z‡. For fuel after hrs call 252-792-1964 or 252-809-2281. For svc after hrs call

252-792-1964. Deer on and invof arpt. Rwy 03 VASI OTS indef. Rwy 21 PAPI OTS indef. MIRL Rwy 03-21 dusk to dawn; to change intensity of MIRL Rwy 03-21-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

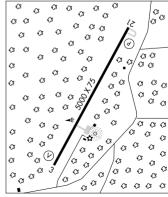
R WASHINGTON CENTER APP/DEP CON 135.5

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

TAR RIVER (L) VORTAC 117.8 TYI Chan 125 N35°58.61' W77°42.23' 110° 26.5 NM to fld. 70/05W

WILLIAMSTON NDB (MHW) 336 MCZ N35°51.54′ W77°10.68′ at fld

CHARLOTTE H-9C. 12H. L-35C IAP



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WILMINGTON INTL
                  (ILM)(KILM) CIV/MIL/AF 3 NE UTC-5(-4DT) N34°16.24′ W77°54.15′
                                                                                                 CHARL OTTE
  32 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 LRA Class I, ARFF Index B
                                                                                               H-9C. L-35B
                                                                                                  DIAP, AD
    NOTAM FILE ILM
  RWY 06-24: H8016X150 (ASPH-GRVD)
                                     S-75, D-160, ST-175,
                                                                         G.
    DT-275 PCN 100 F/A/X/T HIRL
                                                                            C C C
    RWY 06: REIL. VASI(V4L)-GA 3.0° TCH 60'.
                                                                              33
    RWY 24: MALSR. VASI(V4L)-GA 3.0° TCH 48'.
                                     S-60, D-185, ST-175,
  RWY 17-35: H7004X150 (ASPH-GRVD)
    DT-300 PCN 24 F/A/X/T HIRL
    RWY 17: REIL. VASI(V4L)-GA 3.0° TCH 53'. Tree.
    RWY 35: MALSR. PAPI(P4L)—GA 3.0° TCH 34'. Dsplcd thid 400'.
  RUNWAY DECLARED DISTANCE INFORMATION
                                                                                                  \sim
    RWY 06: TORA-8016 TODA-8016
                                     ASDA-8016
    RWY 17: TORA-7004
                       TODA-7004
                                     ASDA-6204
                                                   LDA-6204
    RWY 24: TORA-8016 TODA-8016
                                     ASDA-8016
                                                   LDA-8016
    RWY 35: TORA-7004 TODA-7004 ASDA-7004
                                                   LDA-6604
  MILITARY SERVICE: FUEL (NC-100LL). A+ (Air Wilmington, Inc.,
    C910-763-4691.)
  AIRPORT REMARKS: Attended continuously. Acft taxiing from S ramp
                                                                                       03 03
    obtain ATC clnc prior to crossing Rwy 17-35 1100-0400Z‡. Rwy
                                                                        OG
                                                                                      તેં5
                                                                                  C3<sub>C3</sub>
    24 touchdown runway visual range avbl. ACTIVATE REIL Rwy 06
    and Rwy 24, MALSR Rwy 24, HIRL Rwy 06-24, all twy lgts-CTAF.
    Flight Notification Service (ADCUS) avbl.
  WEATHER DATA SOURCES: ASOS (C910) 343-9489
                             ATIS 124.975 UNICOM 122.95
  COMMUNICATIONS: CTAF 119.9
    RCO 122.1R 117.0T (RALEIGH RADIO)
    RCO 122.55 (RALEIGH RADIO)
 (R) APP/DEP CON 135.75 346.35 (344°-163°) 118.25 284.65 (164°-343°) (1100-0400Z‡)
 R WASHINGTON CENTER APP/DEP CON 124.025 269.15 (0400-1100Z‡)
    TOWER 119.9 239.3 (1100-0400Z±) GND CON 121.9 348.6 CLNC DEL 121.9 348.6
  AIRSPACE: CLASS D svc 1100-0400Z± other times CLASS E.
    TRSA svc ctc APP CON within 20 NM.
  RADIO AIDS TO NAVIGATION: NOTAM FILE II M
    (H) VORTAC 117.0 ILM Chan 117
                                         N34°21.10′W77°52.46′ 205° 5.1 NM to fld. 20/07W.
      VOR portion unusable:
       165°-169°
                                                                 220°-273° bvd 5 NM blo 17.500'
       186°-219° byd 16 NM blo 3000′
                                                                 274°-314° byd 5 NM
       186°-219° byd 21 NM
                                                                315°-164° byd 5 NM blo 8,000'
       186°-219° blo 2000
    GRAND STRAND (L) VORTAC 117.6
                                 CRF
                                        Chan 123 N33°48.83′ W78°43.47′ 059° 49.3 NM to fld.
      20/03W. NOTAM FILE CRE.
    AIRLI NDB (LOM) 281 IL N34°11.48′ W77°51.98′ 346° 5.1 NM to fld. Unmonitored when twr clsd.
    WILZE NDB (LOM) 205
                       GM N34°20.25′ W77°48.71′ 236° 6.0 NM to fld.
    ILS 110.3 I-ILM
                       Rwy 35. Class IB. LOM AIRLI NDB. ILS unmonitored when twr clsd. LOC unusable byd
      26° right of course.
    ILS 111.55 I-GMX Rwy 24. Class IE.
                                             LOM WILZE NDB.
    ILS/DME 109.95 I-GNM Chan 36(Y) Rwy 06. GS unusable byd 7° right of course.
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COMM/NAV/WEATHER REMARKS: Radar see Terminal FLIP for Radar Minima.

CHARL OTTE

L-35B, 36G

WILSON INDUSTRIAL AIR CENTER (WØ3) 3 N UTC-5(-4DT)

3 N UTC-5(-4DT) N35°46.22′ W77°58.19′

161 B FUEL 100LL, JET A1+ NOTAM FILE RDU

RWY 03-21: H4500X150 (ASPH) S-20 MIRL

RWY 03: REIL. PAPI(P2L)—GA 3.54°TCH 40'. Trees.

RWY 21: REIL. PAPI(P2L)-GA 3.81°TCH 40'. Trees.

RWY 09-27: H4500X150 (ASPH) S-20

RWY 09: Trees. RWY 27: Trees.

RWY 15-33: H4499X150 (ASPH) S-20 RWY 15: Trees. RWY 33: Trees.

AIRPORT REMARKS: Attended 1300–2300Z‡. For svc after hrs call

252–904–9706. Deer on and invof arpt. No line-of-sight between rwy ends. MIRL Rwy 03–21 preset low ints; to increase ints and ACTIVATE PAPI and REIL Rwys 03 and 21—CTAF.

COMMUNICATIONS: CTAF/UNICOM 123.0

R WASHINGTON CENTER APP/DEP CON 118.475

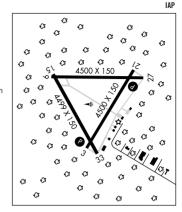
GCO 121.725 (FLIGHT SERVICES)

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

TAR RIVER (L) VORTAC 117.8 TYI Chan 125 N35°58.61'

W77°42.23' 231° 17.9 NM to fld. 70/05W.

COMM/NAV/WEATHER REMARKS: GCO OTS indef.



WILSON'S (See HICKORY)

WILZE N34°20.25′ W77°48.71′ NOTAM FILE ILM.

NDB (LOM) 205 GM 236° 6.0 NM to Wilmington Intl.

CHARLOTTE

WINGATE

US HELIPORT (N46) 3 N UTC-5(-4DT) N34°59.06′ W80°25.15′

CHARLOTTE

590 S4 **FUEL** JET A NOTAM FILE RDU **HELIPAD H1:** 100X100 (TURF)

HELIPORT REMARKS: Attended Mon-Fri 1300-2200Z‡. PPR weekdays 2200Z‡-SR and weekends/holidays, call

704–233–4254. PPR for ngt ops. Unmarked p-lines N and S of pad. Helicopters with gross weight over 10,000 pounds use TURF W of CONC pad but within fenced area. Tkf and ldg in all quadrants into prevailing wind.

COMMUNICATIONS: CTAF/UNICOM 123.075

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WINSTON SALEM
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SMITH REYNOLDS (INT) 3 NE UTC-5(-4DT) N36°08.02′ W80°13.32′

CINCINNATI

969 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 LRA ARFF Index—See Remarks H-9B. 12G. L-25D. 36F NOTAM FILE INT ΙΔΡ ΔΠ

RWY 15-33: H6655X150 (ASPH-GRVD) S-110, D-135, ST-175, DT-230 HIRL 1.0% up NW

RWY 15: REIL. PAPI(P4L)-GA 3.0°TCH 36'. Thid dspicd 586'. Bldg.

RWY 04-22: H3938X150 (ASPH) S-40, D-55, DT-90 MIRL 0.3% up NE

RWY N4. Trees RWY 22: PAPI(P2L)-GA 3.0°TCH 39'. Trees.

LAND AND HOLD SHORT OPERATIONS

HOLD SHORT POINT **DIST AVRI RWY 33** 04 - 226010

AIRPORT REMARKS: Attended continuously. Class I, ARFF Index A. CLOSED to air carrier opr with more than 30 passenger seats 0400-1200Z‡ except 24 hr PPR. ARFF Index B coverage also avbl, call arpt manager 336-767-6361. Boeing 727-200 series are restricted to rwy 15-33, terminal ramp, and Twy A and Twy F only. Rwy 33 touchdown rwy visual range avbl. HIRL Rwy 15-33 preset on med ints when twr clsd, MIRL Rwy 04-22 unavailable when twr clsd. When twr clsd ACTIVATE REIL Rwy 15 and MALSR Rwy 33—CTAF. Flight Notification Service (ADCUS) avbl

WEATHER DATA SOURCES: ASOS (336) 661-3096. LAWRS.

COMMUNICATIONS: CTAF 123.75 ATIS 121.3 UNICOM 122.95

R GREENSBORO APP/DEP CON 124.35

WINSTON SALEM TOWER 123.75 (1145-0230Z‡) GND CON 128.25

AIRSPACE: CLASS D svc 1145-0230Z tother times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE GSO.

GREENSBORO (H) VORTAC 116.2 GSO Chan 109 N36°02.74′ W79°58.58′ 297° 13.1 NM to fld. 879/03W. 2AWIH

REENO NDB (LOM) 317 IN N36°04.26′ W80°10.01′ 332° 4.6 NM to fld. Unmonitored when twr clsd. IIS 110.3 I-INT Rwy 33. Class IB. LOM REENO NDB. GS unusable blo 1141'.

WOODVILLE N36°15.78′ W76°17.88′ NOTAM FILE ECG.

WASHINGTON 1-35C

NDB (MHW) 254 LLW 101° 6.0 NM to Elizabeth City CG Air Station/Rgnl.

CHARL OTTE

WRIGHT BROTHERS N35°55,23′ W75°41,82′ NOTAM FILE MOI.

RWY 34. Trees

(T) VORW/DMF 1116 RRX Chan 53 at Dare Co Rgnl. 10/08W. L-35D

VOR unusable 281°-318° blo 8000′. 319° blo 4000′ and 320°-280°. Unmonitored 2300-1300Z±.

YADKINVIIIF

LONE HICKORY (80C) 6 S UTC-5(-4DT) N36°03.08′ W80°41.37′

CINCINNATI

1000 NOTAM FILE RDU

RWY 16. Road

RWY 16-34: 2000X60 (TURF)

AIRPORT REMARKS: Attended irregularly, Call 336-463-4680, Acft opr from Piney Ridge Arpt 1.3 mi northwest, Acft parked 90' from centerline at rwy mid point. Rwy 16-34 has 3% grade, winds permitting tkf Rwy 34 and ldg Rwy 16. P-lines 500'-1000' north Rwy 16 thld. No flt training or student pilots only experienced pilots permitted. Rwy 34 dep make left turn for noise and obstruction avoidance.

Not insp.

COMMUNICATIONS: CTAF 122.9

YANCEYVILLE

CASWELL (6W4) 2 W UTC-5(-4DT) N36°23.98′ W79°23.57′

CINCINNATI

648 NOTAM FILE RDU

RWY 04-22: 1735X150 (TURF)

RWY 04: Tree. RWY 22: Trees.

AIRPORT REMARKS: Unattended. Deer on and invof arpt. Model acft activity on arpt. Rwy 04-22 +50'-70' trees along both sides of rwy. +4' fence 20' from thId on diagonal. Occasional nighttime military ops. Rwy 04-22 marked with yellow cones.

COMMUNICATIONS: CTAF 122.9

ZEPHYR N36°18.79′ W80°43.40′ NOTAM FILE RDU. CINCINNATI

NDB (MHW) 326 ZEF 242° 3.6 NM to Elkin Muni. L-25D

INTENTIONALLY LEFT BLANK

NOISE ABATEMENT PROCEDURES COVINGTON, KY, CINCINNATI/NORTHERN KENTUCKY INTL AIRPORT (CVG)

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no further than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

AEROBATIC PRACTICE AREA Jack Edwards Airport (JKA) Gulf Shores. AL

Aerobatic flight activity will be conducted within a 2 NM radius of airport. Contact UNICOM for traffic and Anniston AFSS for specific times.

Fayette County (FYE), Somerville, Tennessee

Aerobatic training and practice is conducted in a 3500' symmetrical box located 500 feet west of Rwy 01–19 from the sfc to 4500 MSL. If surface winds favor Rwy 01, right traffic for that rwy is in effect when area is active.

Pilots should use caution within this area. For further information contact Jackson AFSS on 1-901-423-1289.

CONTROLLED FIRING AREA Milan, Tennessee

Controlled Firing Area 5 NM radius 2500' & blo of MKL 030/018, eff. Mon-Fri 1200-2300Z‡, Sat 1530-2230Z‡ Sun 1230-1700Z‡.

Helicopter Activity Mosby Army Heliport, Dahlonega, GA Area

Occasional military helicopter activity within 15NM radius of Mosby AHP, (34°37'N/84°06'W) SFC to 3700 MSL. Activity includes: flight formations, personnel transport operations, cargo para—drop operations (below 500 AGL), medical evacuation and night vision device training. CTAF 227.2, 139.3, "Mountain Ranger 08" FM 34.10. Staff Duty Officer, Camp Frank D. Merrill, (706) 864–3367.

NIGHT VISION LIGHTS OUT OPERATIONS North Carolina. South Carolina

Military helicopter activity will be conducted for Night Vision Lights Out Training in North Carolina and South Carolina. Position lights will be extinguished or greatly reduced in intensity. The training is conducted in areas of low air traffic and not within four (4) miles of a public use airport. Training is IAW exemption to Far Part 91.

Boundaries: Beginning at Lat $35^{\circ}41'N$, Lon $78^{\circ}30'W$; to Lat $34^{\circ}00'N$, Lon $78^{\circ}30'W$; to Lat $34^{\circ}00'N$, Lon $80^{\circ}00'N$, Lon $80^{\circ}00'N$, Lon $80^{\circ}30'W$; to point of beginning.

Times of use: Sunset to sunrise, daily.

Helicopter Activity Camp Blanding, Starke, Florida Area

Heavy military helicopter activity within 9 NM radius Blanding AAF, (29°57′7.84″N; 81°58′47.32″W). Surface to 1,500 feet. Activity includes: flight formations, personnel transport operations, sling loads, MED VAC, and night vision goggle training. Mon–Sat 1300–0500Z‡, 1300–2000Z‡ Sun. Blanding Twr 123.0 by NOTAM, other times Range Control 123.0. (904) 533–3113/3352.

Cuban Flight Advisory (UNTIL FURTHER NOTICE)

The Federal Aviation Administration has been informed that an official Cuban government publication has issued a warning that Cuban Armed Forces will shoot down any aircraft that penetrates Cuban Airspace illegally and refuses to obey an order to land for inspection.

All pilots should take note: use extreme caution in the area of Cuban Airspace; adhere strictly to Cuban requirements for overflight of their territory.

LASER LIGHT DEMONSTRATIONS Lake Buena Vista, Florida

A laser light demonstration will be conducted at Disney MGM Studios Theme Park, Lake Buena Vista, Florida (ORL 226 radial, 16.2 NM, LAT 28°21'42"N, LON 81°33'29"W), from 6:00 PM until 4:00 AM, until further advised. The beam may be injurious to eyes if viewed within 3,000 feet vertically and/or 12,000 feet laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

Lake Buena Vista, Florida

A laser light demonstration will be conducted at Epcot Center, Lake Buena Vista, Florida (ORL 226 radial, 16 NM, lat 28*22'N, long 81*32'W), from 6:00 pm until 4:00 am, until further advised. The beam may be injurious to eyes if viewed within 5000 feet vertically and/or 1 nautical mile laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

Miami. Florida

A permanent laser light demonstration will be conducted at Bayfront Park, Miami, Florida (VKZ 312 radial, 2.24 NM, Lat 25°46'41"N, Lon 80°11'12"W), from 8:00 p.m. until 12:00 a.m. until further advised. The laser light beam is not expected to elevate above the horizon from a 90 foot high platform. Laser light beam may be injurious to eyes if viewed within 4,400 feet laterally of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

Miami Beach, Florida

A permanent Laser Light Demonstration will be conducted at the Amnesia Club, located in Miami Beach, Florida, Lat 25°46"N/Long 80°08"W, nightly from dusk until 2 AM.

Laser Light beam may be injurious to eyes if viewed within 3,500 feet vertically and/or 2,000 feet laterally of the light source. Cockpit illumination-flash blindness may occur beyond these distances.

Orlando, Florida

A laser light demonstration will be conducted at Sea World of Florida, Orlando, Florida (ORL 220 radial, 11 NM, Lat 27°24′N, Long 81°27′W), from 6:30 pm until 12:00 am, until further advised. The beam may be injurious to eyes if viewed within 5000 feet vertically and/or 6500 feet laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

A permanent laser light demonstration will be conducted at the Walt Disney World, Alien Encounter, Orlando, Florida, ORL VORTAC 239 radial, 15 nautical miles, from Dusk to 12:00 AM daily.

Laser light beam may be injurious to eyes if viewed within 2500 feet laterally and/or 2500 feet vertically of the light source. Cockpit illumination-flash blindness may occur beyond these distances.

Decatur, Georgia

Laser light activity will be conducted at Agnes Scott College, Decatur, GA located at Lat 33° 45′ 55″N/Long 84° 17′ 39″W (ATL 041° radial, 11 NM), intermittent daily, at an angle of 90 degrees from the surface, projecting up to 14,036 feet, until further notice. Flash blindness or cockpit illumination may occur beyond these distances.

Clemson, South Carolina

A permanent laser light demonstration will be conducted at Clemson University, Clemson, South Carolina, ELW VORTAC 353R/18NM, from dusk until dawn, daily.

Laser light beam may be injurious to eyes if viewed within 3,500 feet laterally and/or 3,500 feet vertically of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

LASER LIGHT EXPERIMENT

Arecibo Observatory, Puerto Rico

Location: 18°-20'-37"N 66°-45'-11"W

A Laser Light Beam Experiment will be conducted at the Arecibo Observatory, Puerto Rico (PSE 340/30), from one hour before sunset until one hour after sunrise twice weekly (by NOTAM).

Laser light beam may be injurious to eyes if viewed within 5,000 feet vertical and/or one nautical mile lateral of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

MEMPHIS, TN MEMPHIS INTL AIRPORT (MEM) NOISE ABATEMENT PROCEDURES

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no later than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

NASHVILLE, TN NASHVILLE INTL AIRPORT (BNA) NOISE ABATEMENT PROCEDURES

Successive or simultaneous departures from Runways 20L and 20R are authorized, with course divergence beginning within 1mile of the departure end of parallel runways, due to noise abatement restrictions.

CHARLOTTE, NC CHARLOTTE/DOUGLAS INTL AIRPORT (CLT) NOISE ABATEMENT PROCEDURES

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no later than 3 miles from the departure end of parallel runways, due to noise abatement restrictions.

AIRSPACE DELEGATED TO MACDILL AFB. FL

From 1100–2300 UTC (0700–1900 Local) daily, the following airspace that lies within the Tampa CLASS B Airspace will be delegated to McDill AFB ATCT for airport traffic control services, and CLASS B Airspace services will not be provided within this portion of the CLASS B Airspace:

That airspace which extends from 1,200 feet MSL up to and including 1,600 feet MSL, south of a line located $1\frac{1}{2}$ miles west of and parallel to MacDill AFB Runway 4/22 extended runway centerline, within a 4.5 NM radius from the geographical center of the MacDill AFB Airport.

Indianapolis ARTCC NABB INDIANA AREA

New Hope, London, Lexington Kentucky Area

Indianapolis Center has installed frequencies in the southern portion of their airspace that require 720-channel radio canability

Pilots should be aware that if they fly in the Nabb, IN, or the New Hope, London, and Lexington, KY, area without a 720-channel radio, ATC services will be greatly reduced. Traffic advisories, weather information, airport information, along with any other direct communication services will not be available.

While in this area of Indianapolis Center, pilots without 720-channel capability will, in most cases, monitor Flight Service Stations. There will be a noticeable delay in all clearance activity. Please ensure that ATC has adequate lead time in the event of problems or clearance requirements.

HELICOPTER ACTIVITY ORLANDO, FL AREA.

Heavy helicopter activity over the Disney attractions, Sea World, Universal Studios, Bay Hill and surrounding area. Surface to 1000' MSL. Operations 24 hours daily. Helicopters, transmitting and receiving on 123.02.

CAUTION-TETHERED AEROSTAT RADAR SYSTEM (TARS)

A TARS (a large helium-filled balloon) operates continuously up to 14,000 feet, except during inclement weather or when the system is down for maintenance, in R–2916 at Cudjoe Key, Florida. The tether is unmarked and is virtually impossible to see from only a few hundred feet. See the Miami Sectional Chart for location.

SPECIAL NORTH ATLANTIC. CARIBBEAN AND PACIFIC AREA COMMUNICATIONS

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

North Atlantic area: 123.45 MHz
Caribbean area: 123.45 MHz
Pacific area: 123.45 MHz

ST. PETERSBURG, FLORIDA

Pilots planning to overfly the St. Petersburg VORTAC (PIE) below 13,000 feet MSL should file via the Lakeland VORTAC (LAL) between 1100 and 2300 UTC.

GEORGIA

Atlanta Tower: Low altitude airway structure in proximity of the Hartsfield–Jackson Atlanta Intl Airport is aligned to provide bypass routes for traffic overflying Atlanta. To avoid heavy concentration of high performance and wide-bodied aircraft, pilots should file for airways beyond 35 nautical miles from Atlanta VOR. Aircraft operating IFR below 15,000 MSL, via airways within 35 nautical miles of Atlanta VOR may expect altitude changes and/or rerouting between the hours 0830 and 2100 local.

U.S. SPECIAL CUSTOMS REQUIREMENT

Air Commerce Regulations of the Treasury Department's Customs Service require all private aircraft arriving in the U.S. from a foreign place in the Western Hemisphere, (a) south of 33 degrees north latitude which cross into the U.S. over a point on the U.S./Mexican border between 97 and 120 degrees west longitude, or (b) south of 31 degrees north latitude which enter the U.S. via the Gulf of Mexico and Atlantic Coasts, to provide notice of intended arrival to the Customs Service at least one hour prior to crossing the U.S./Mexican border or the U.S. coastline. This notice may be provided by: (1) radio through an appropriate FAA Flight Service Station, (2) normal FAA flight plan notification procedures (a flight plan filed in Mexico does not meet this requirement due to unreliable relay of data), or (3) directly to the District Director of Customs or other Customs officer at place of first intended landing. Unless an exemption has been granted by Customs, private aircraft are required to make first landing in the U.S. at one of the following designated airports nearest to the point of border or coastline crossing:

Brownsville/South Padre Island International, Corpus Christi International, Del Rio International, El Paso International, Laredo International, Maverick County Memorial International, McAllen Miller International, Presidio-Lely International, Southwest Texas Regional, or William P. Hobby Airport in Texas; Calexico International, or Brown Field Municipal in California; Bisbee Douglas International, Nogales International, Tuscon International, or Yuma MCAS/Yuma International in Arizona; Las Cruces Intl in New Mexico; Lakefront or Louis Armstrong New Orleans Intl in Louisiana; Fort Lauderdale-Hollywood International, Key West International, Miami International, Opa-Locka Executive Airport, Palm Beach International, St. Lucie County International, or Tampa International in Florida.

MILITARY TRAINING ROUTES

The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

CIVIL USE OF MILITARY FIELDS:

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission. Army Installations, prior permission is required from the Commanding Officer of the installation.

For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded direct to Hq USAF (PRPOC), Washington, D.C. 20330.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations prior permission should be requested at least 30 days prior to first intended landing. An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the nearest U.S. Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the Commanding Officer of the field.

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

AIRCRAFT RESTRICTIONS BOCA RATON AIRPORT (BCT), FLORIDA

On initial contact, pilot should advise local Air Traffic Control Tower or announce on local Unicom frequency if aircraft has greater than 79 feet wingspan and/or greater than 140 knot approach speed. Aircraft with wingspan greater than 79 feet and/or an approach speed greater than 140 knots are prohibited from using Runway 5/23 while any aircraft occupies Taxiway P. Aircraft with a wingspan greater than 79 feet must remain clear of Taxiway P while any aircraft are approaching or departing Runway 5/23.

AIRCRAFT LANDING RESTRICTIONS

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated public use airport or seaplane base.

Landing of aircraft is prohibited on lands or waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

FEDERAL AVIATION REGULATION 91.713

The provisions of FAR 91.713 will apply as follows:

Air traffic clearances to aircraft of Cuban registry not engaged in scheduled International Air Service in U.S. airspace will require that the flight plan be filed with appropriate authorities at least five days prior to the proposed departure time. Route changes while en route will normally not be authorized. The procedures set forth herein do not apply at this time to overflights by aircraft of Cuban registry engaged in scheduled International Air Service.

CAUTION—HIGH DENSITY AIR TRAFFIC AREA

Heavy helicopter and seaplane traffic exists over the Gulf of Mexico and adjacent onshore areas. Thousands of operations per month occur in this area in support of oil drilling and exploration.

Itinerant pilots traversing this area should familiarize themselves with offshore operating practices and frequencies through contact with the pertinent Flight Standards District Office (FSDO) or Flight Service Station.

CONTINUOUS POWER FACILITIES

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply.

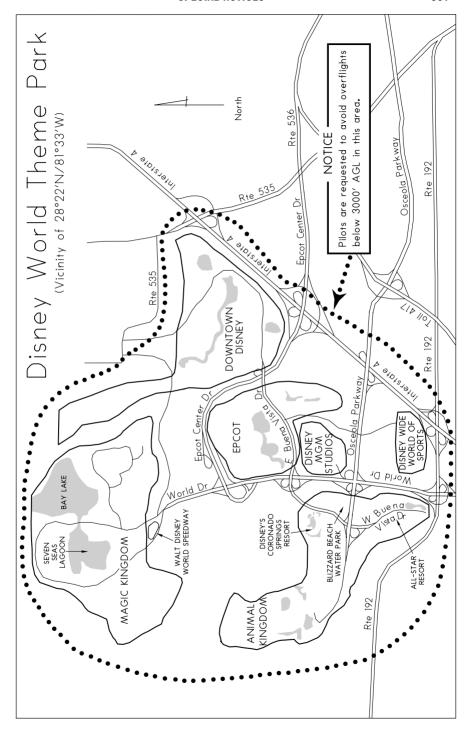
In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been included in this program for a selected runway.

- 1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers)
- 2. Wind Measuring Capability
- 3. Approach Light System (ALS) or Short ALS (SALS)
- 4. Ceiling Measuring Capability 5. Touchdown Zone Lighting (TDZL)
- 6. Centerline Lighting (CL)
- 7. Runway Visual Range (RVR)
- 8. High Intensity Runway Lighting (HIRL)
- 9. Taxiway Lighting
- 10. Apron Light (Perimeter Only)

The following have been designated "Continuous Power Airports," and have independent back up capability for the equipment installed.

Airport/Ident	Runway No.	Airport/Ident	Runway No.
Albuquerque, NM (ABQ)	08	Milwaukee, WI (MKE)	01L
Anchorage, AK (ANC)	07R	Minneapolis, MN (MSP)	30L
Andrews AFB, MD (ADW)	01L	Nashville, TN (BNA)	02L
Atlanta, GA (ATL)	09R	New Orleans, LA (MSY)	10
Baltimore, MD (BWI)	10	New York, NY (JFK)	04R
Bismarck, ND (BIS)	31	New York, NY (LGA)	22
Boise, ID (BOI)	10R	Newark, NJ (EWR)	04R
Boston, MA (BOS)	04R	Oklahoma City, OK (OKC)	35R
Charlotte, NC (CLT)	36L	Omaha, NE (OMA)	14R
Chicago, IL (ORD)	14R	Ontario, CA (ONT)	26L
Cincinnati, OH (CVG)	36C	Philadelphia, PA (PHL)	09R
Cleveland, OH (CLE)	06R	Phoenix, AZ (PHX)	08
Dallas/Fort Worth, TX (DFW)	17C	Pittsburgh, PA (PIT)	10L
Denver, CO (DEN)	35R	Reno, NV (RNO)	16R
Des Moines, IA (DSM)	31	Salt Lake City, UT (SLC)	34L
Detroit, MI (DTW)	03R	San Antonio, TX (SAT)	12R
El Paso, TX (ELP)	22	San Diego, CA (SAN)	09
Fairbanks, AK (FAI)	01L	San Francisco, CA (SFO)	28R
Great Falls, MT (GTF)	03	San Juan, PR (SJU)	08
Honolulu, HI (HNL)	08L	Seattle, WA (SEA)	16C
Houston, TX (IAH)	26L	St. Louis, MO (STL)	30R
Indianapolis, IN (IND)	05L	Tampa, FL (TPA)	36L
Jacksonville, FL (JAX)	07	Tulsa, OK (TUL)	36R
Kansas City, MO (MCI)	19R	Washington, DC (DCA)	01
Los Angeles, CA (LAX)	24R	Washington, DC (IAD)	01R
Memphis, TN (MEM)	36L	Wichita, KS (ICT)	01L
Miami, FL (MIA)	08R		

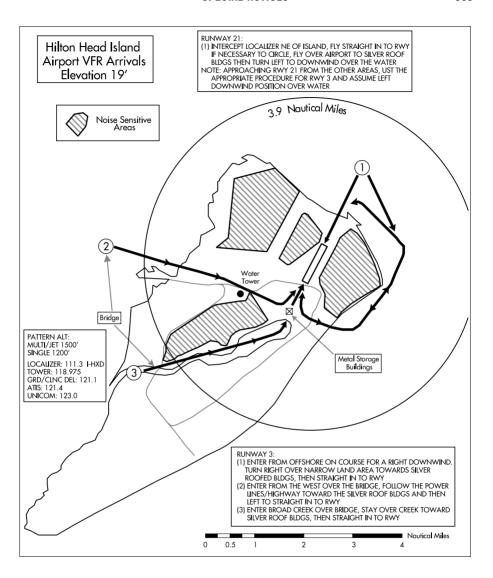
NOTE—The existing CPA runway is listed. Pending and future changes at some locations will require a revised runway designation.

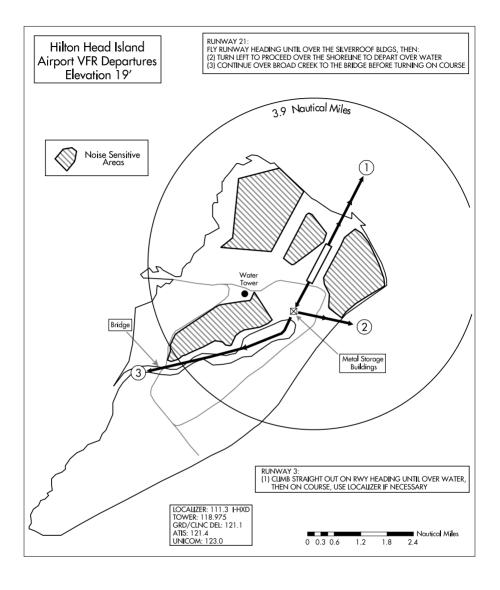


SE, 17 DEC 2009 to 11 FEB 2010

DISNEY WORLD THEME PARK NOTICE

Pursuant to Public Law 108–199, Section 521, aircraft flight operations are prohibited at and below 3,000 feet AGL within a 3 nautical mile radius of the Disney World Theme Park (282445N/081342W or the Orlando (ORL) VORTAC 238 degree radial at 14.8 nautical miles). This restriction does not apply to: (A) those aircraft authorized by ATC for operational or safety purposes, including aircraft arriving or departing from an airport using standard air traffic procedures; (B) Department of Defense, law enforcement, or aeromedical flight operations that are in contact with ATC; Those who meet any of the following criteria may apply for a waiver to these restrictions: (A) for operational purposes of the venue, including the transportation of equipment or officials of the governing body; (b) for safety and security purposes of the venue.





BOWMAN FIELD

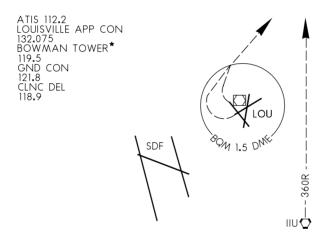
TERMINAL AREA GRAPHIC NOTICE

(Not to be used for navigation)

Bowman Airport Runway 24 and Runway 33 VFR Departure Procedure.

"SENECA DEPARTURE"

PILOTS SHOULD SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME.



Remaining within $1\frac{1}{2}$ miles from Bowman VOR (BQM), turn right heading 045, maintaining VFR at or below 2500 feet. Expect IFR activation and climb upon crossing the IIU 360 radial

WEATHER MINIMUMS: Ceiling 3000 and visibility 3 miles.

NOTE: Receipt of a clearance to climb above 2500 feet constitutes activation of IFR clearance upon leaving 2500 feet.

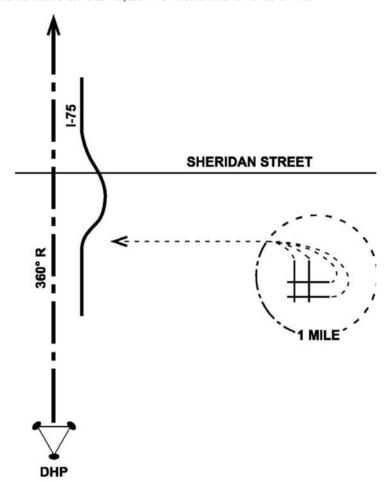
HOLLYWOOD/NORTH PERRY (HWO) HOLLYWOOD, FL

TERMINAL AREA GRAPHIC NOTICE (Not to be used for navigation)

Hollywood/North Perry Airport Runway 9L, 9R, 36L and 36R VFR Departure Procedure.

"SHERIDAN DEPARTURE"

PILOTS SHOULD SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME.



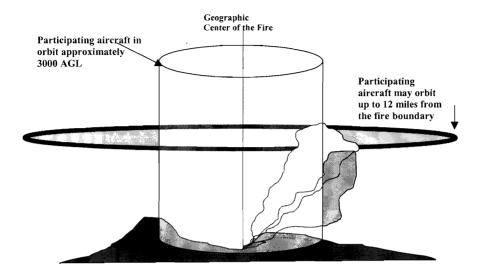
ATIS 135.475
MIAMI APPROACH CONTROL 128.6
NORTH PERRY TOWER 132.1
GROUND CONTROL 120.45

Remain within 1 mile from HWO airport, if departing north or east turn left to heading 260. Remain south of Sheridan Street VFR at or below 1500. Expect IFR activation and climb crossing I75 (5 miles west of HWO) or the DHP 360 radial.

WEATHER MINIMUMS: Ceiling 2000 and visibility 3 miles.

NOTE: Receipt of a clearance to climb above 1500 constitutes activation of IFR clearance.

FIREFIGHTING TRAFFIC AREAS



Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information

The following narratives summarize the FAR Part 93 Special Air Traffic Rules, Patterns, and/or Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

DESTIN-FT WALTON BEACH, FLORIDA VALPARAISO TERMINAL AREA

Part 93, Subpart F, prescribes that Valparaiso, Florida, Terminal Area, and the special air traffic rules for operating aircraft within specific corridor.

- North-South Corridor.

Before operating within the corridor, obtain a clearance from the Eglin Radar Control Facility or an appropriate FAA ATC facility, and maintain two-way radio communication with the Eglin Radar Control Facility while within the corridor.

- East-West Corridor.

Before operating within the corridor, establish two-way radio communications with Eglin Radar Control Facility or an appropriate FAA ATC facility for an ATC advisory concerning operations being conducted therein; and maintain two-way radio communications with the Eglin Radar Control Facility while within the corridor. For Destin/Eglin AFB FL Part 93 Operations details, see FAASafety.gov Knowledge Course at: http://faasafety.gov/gslac/ALC/course_catalog.aspx.

OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS KENNEDY, LAGUARDIA, AND WASHINGTON REAGAN NATIONAL

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K, and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time.

Reservation procedures are detailed in Advisory Circular 93–1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at http://www.faa.gov. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e–CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights.

The toll–free telephone number for accessing e–CVRS is 1–800–875–9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll–free areas may access e–CVRS by calling the toll number of 703–707–0568. The Internet web address for accessing the e–CVRS is http://www.fly.faa.gov/ecvrs. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport Reservation Office at the Air Traffic Control System Command Center at (703) 904–4452.

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted beginning at 11 a.m. on the previous Monday.

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904–4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

NOTE: Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an advance reservation through e–CVRS.

FSS TELEPHONE NUMBERS

Flight Service Station (FSS) facilities provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a network of large hub facilities and smaller remote facilities which are interconnected with the hubs.

Selected remote FSS facilities across the contiguous United States have variable part-time operating hours. Because of the interconnectivity between remote and hub facilities, all FSS services are available continuously using published telephone numbers and radio frequencies.

SOUTHEAST U.S.

FLORIDA: St. Petersburg, St. Petersburg—Clearwater International (PIE) — PIE FSS NORTH CAROLINA: Raleigh, Raleigh—Durham International (RDU) — RDU FSS

TENNESSEE: Nashville, Nashville International (BNA) — BNA FSS

Telephone Information Briefing Service (TIBS) is a FSS service that provides continuous recordings of meteorological and/or aeronautical information including area and/or route briefings, airspace procedures and special announcements. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

NATIONAL FSS TELEPHONE NUMBER

OTHER FSS TELEPHONE NUMBERS (except in Alaska)

TIBS (see description above)	1-877-4TIBS-WX (1-877-484-2799)
Clearance Delivery Only	1-888-766-8267
Lifeguard Flights Only	1-877-LIF-GRD3 (1-877-543-4733)
Flights within DC SFRA & FRZ*	1-866-225-7410

^{*} District of Columbia Special Flight Rules Area & Flight Restricted Zone

390 FAA AND NWS

KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

TAF KPIT 091730Z 091818 15005KT 5SM HZ.FEW020 WS010/31022KT FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA OVC008CB

FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC

METAR KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB 18/16 A2992 RMK SLP045 T01820159

Forecast	Explanation	Report
TAF	Message type: <u>TAF-routine or <u>TAF AMD-amended forecast</u>, <u>METAR-hourly</u>, <u>SPECI-special or <u>TESTM-non-commissioned ASOS</u> report</u></u>	METAR
KPIT	ICAO location indicator	KPIT
091730Z	Issuance time: ALL times in UTC "Z", 2-digit date, 4-digit time	091955Z
091818	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times	
	In U.S. METAR : <u>COR</u> rected ob; or <u>AUTO</u> mated ob for automated report with no human intervention; omitted when observer logs on	COR
15005KT	Wind: 3 digit true-north direction, nearest 10 degrees (or <u>VaRiaBle</u>); next 2-3 digits for speed and unit, <u>KT</u> (KMH or MPS); as needed, <u>G</u> ust and maximum speed; 00000KT for calm; for METAR , if direction varies 60 degrees or more, <u>V</u> ariability appended, e.g. 180 <u>V</u> 260	22015G25KT
5SM	Prevailing visibility: in U.S., Statute Miles & fractions; above 6 miles in TAF Plus6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	3/4SM
	Runway Visual Range: R; 2-digit runway designator Left, Center, or Right as needed; '\sumsymbol'; Minus or Plus in U.S., 4-digit value, FeeT in U.S., (usually meters elsewhere); 4-digit value Variability 4-digit value (and tendency Down, Up or No change)	R28L/2600FT
HZ	Significant present, forecast and recent weather: see table (on back)	TSRA
FEW020	Cloud amount, height and type: SKy Clear 0/8, FEW >0/8-2/8, SCaTtered 3/8-4/8, BroKeN 5/8-7/8, OVerCast 8/8; 3-digit height in hundreds of ft; Towering CUmulus or CumulonimBus in METAR; in TAF, only CB. Vertical Visibility for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated METAR reports only, CLeaR for "clear below 12,000 feet"	OVC010CB
	Temperature: degrees Celsius; first 2 digits, temperature "/" last 2 digits, dew-point temperature; Minus for below zero, e.g., M06	18/16
	Altimeter setting: indicator and 4 digits; in U.S., A-inches and hundredths; (Q-hectoPascals, e.g., Q1013)	A2992

FAA AND NWS 391

KEY to AERODROME FORECAST (TAF) and **AVIATION ROUTINE WEATHER REPORT** (METAR)

Forecast	Explanation	Report
WS010/31022KT	In U.S. TAF , non-convective low-level (≤2,000 ft) <u>Wind Shear</u> ; 3-digit height (hundreds of ft); "/"; 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, <u>KT</u>	
	In METAR , <u>ReMarK</u> indicator & remarks. For example: <u>Sea-Level Pressure</u> in hectoPascals & tenths, as shown: 1004.5 hPa; <u>Temp/dew-point</u> in tenths °C, as shown: temp. 18.2°C, dew-point 15.9°C	RMK SLP045 T01820159
FM1930	<u>FroM</u> and 2-digit hour and 2-digit minute beginning time: indicates significant change. Each FM starts on new line, indented 5 spaces.	
TEMPO 2022	TEMPOrary: changes expected for < 1 hour and in total, < half of 2-digit hour beginning and 2-digit hour ending time period	
PROB40 0407	PROBability and 2-digit percent (30 or 40): probable condition during 2-digit hour beginning and 2-digit hour ending time period	
BECMG 1315	BECoMinG: change expected during 2-digit hour beginning and 2-digit hour ending time period	

Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, No Significant Weather.

QUA	LIFIER						
Intens	ity or Proximity	,					
	ight		sign* Moderate				
VC	Vicinity: but not	at a	erodrome; in U.S. MI	ETA	R, between 5 and 10	OSM	of the point(s) of
1	observation; in U	J.S.	TAF, 5 to 10SM fron	n ce	nter of runway comp	lex ((elsewhere within 8000m)
Descr	iptor						
MI	Shallow	BC	Patches	PR	Partial	TS	Thunderstorm
BL	Blowing	SH	Showers	DR	Drifting	FΖ	Freezing
WEA	THER PHENO	OME	NA				
Precip	oitation						
			Rain		Snow	SG	Snow grains
			Ice pellets			GS	Small hail/snow pellets
		itatio	on in automated obse	ervat	tions		
	ıration						
	Mist (≥5/8SM)		Fog (<5/8SM)		Smoke	VA	Volcanic ash
SA	Sand	ΗZ	Haze	PΥ	Spray	DU	Widespread dust
Other							
	- 1				Duststorm	PO	Well developed
L FC	Funnel cloud	+FC	tornado/waterspout				dust/sand whirls

- Explanations in parentheses "()" indicate different worldwide practices.
- Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.
- NWS TAFs exclude turbulence, icing & temperature forecasts; NWS METARs exclude trend fcsts
 Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility ≥10 km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.

 UNITED STATES DEPARTMENT OF COMMERCE

NOAA/PA 96052 National Oceanic and Atmospheric Administration—National Weather Service

FAA AND NWS KEY AIR TRAFFIC FACILITIES

Air Traffic Control System Command Center

Main Number......703-904-4400

RGNL AIR TRAFFIC DIVISIONS			
REGION	TELEPHONE		
Alaskan	907-271-5464		
Central	816-329-2500		
Eastern	718-553-4502		
Great Lakes	847-294-7202		
New England	781-238-7500		
Northwest Mountain	425-227-2500		
Southern	404-305-5500		
Southwest	817-222-5500		
Western Pacific	310-725-6500		

AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

ARTCC NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS Hours	BUSINESS TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m4:00 p.m.	505-856-4300
Anchorage	907-271-5936	7:30 a.m4:00 p.m.	907-269-1137
Atlanta	404-305-5180	7:30 a.m5:00 p.m.	770-210-7601
Boston	617-238-7001	7:30 a.m4:00 p.m.	603-879-6633
Chicago	847-294-8400	8:00 a.m4:00 p.m.	630-906-8221
Cleveland	847-294-8400	8:00 a.m4:00 p.m.	440-774-0310
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-651-4100
Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	817-858-7300
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-5300
Indianapolis	847-294-8400	8:00 a.m4:00 p.m.	317-247-2231
Jacksonville	404-305-5180	8:00 a.m4:30 p.m.	904-549-1501
Kansas City	816-329-3000	7:30 a.m4:00 p.m.	913-254-8500
Los Angeles	661-265-8200	7:30 a.m4:00 p.m.	661-265-8200
Memphis	404-305-5180	7:30 a.m4:00 p.m.	901-368-8103
Miami	404-305-5180	7:00 a.m3:30 p.m.	305-716-1500
Minneapolis	847-294-8400	8:00 a.m4:00 p.m.	651-463-5580
New York	718-995-5426	8:00 a.m4:40 p.m.	516-468-1001
Oakland	310-725-3300	6:30 a.m3:00 p.m.	510-745-3331
Salt Lake City	425-227-1389	7:30 a.m4:00 p.m.	801-320-2500
Seattle	425-227-1389	7:30 a.m4:00 p.m.	253-351-3500
Washington	718-995-5426	8:00 a.m4:30 p.m.	703-771-3401

MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Atlanta	404-305-5180	7:00 a.m3:30 p.m.	404-669-1200
Chicago	847-294-8400	8:00 a.m4:00 p.m.	847-608-5509
Dallas/Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m3:30 p.m.	916-366-4001
Southern CA	310-725-3300	7:30 a.m4:00 p.m.	858-537-5800

^{*}Facilities can be contacted through the RgnI Duty Officer during non-business hours.

FAA AND NWS

KEY AIR TRAFFIC FACILITIES DAILY NAS REPORTABLE AIRPORTS

AIRPORT	*24 HR RGNL DUTY OFFICE	BUSINESS	BUSINESS
NAME	TELEPHONE #	HOURS	TELEPHONE #
Albuquerque Intl Sunport, NM	817-222-5006	8:00 a.m5:00 p.m.	505-842-4366
Andrews AFB, MD	718-995-5426	8:00 a.m4:30 p.m.	301-735-2380
Baltimore/Washington			
Intl Thurgood Marshall, MD	718-995-5426	8:00 a.m4:30 p.m.	410-962-3555
Boston Logan Intl, MA	781–238–7001	7:30 a.m4:00 p.m.	617-455-3100
Bradley Intl, CT	617-238-7001	7:30 a.m4:00 p.m.	203-627-3428
Burbank/Bob Hope, CA	310–725–3300 404–305–5180	7:00 a.m5:30 p.m. 8:00 a.m4:30 p.m.	818–567–4806 704–344–6487
Charlotte Douglas Intl, NC Chicago Midway, IL	847-294-8400	8:00 a.m.–4:00 p.m. 8:00 a.m.–4:00 p.m.	773-884-3670
Chicago O'Hare Intl, IL	847-294-8400	8:00 a.m.–4:00 p.m.	773-601-7600
Cleveland Hopkins Intl, OH	847-294-8400	8:00 a.m4:00 p.m.	216-898-2020
Covington/Cincinnati, OH	708-294-7401	8:00 a.m4:30 p.m.	606-767-1006
Dallas/Ft. Worth Intl, TX	817-222-5006	8:30 a.m.–5:00 p.m.	972-615-2531
Dayton Cox Intl, OH	847-294-8400	7:30 a.m4:00 p.m.	937-454-7300
Denver Intl, CO	425-227-1389	7:30 a.m4:00 p.m.	303-342-1600
Detroit Metro, MI	847-294-8400	8:00 a.m4:00 p.m.	734-955-5000
Fairbanks Intl, AK	907-271-5936	7:30 a.m4:00 p.m.	907-474-0050
Fort Lauderdale Intl, FL	404-305-5180	7:00 a.m3:30 p.m.	305-356-7932
George Bush			
Intercontinental/Houston, TX	817-222-5006	7:30 a.m4:00 p.m.	713-230-8400
Hartsfield-Jackson Atlanta Intl, GA	404–305–5180	7:00 a.m3:30 p.m.	404-669-1200
Honolulu Intl, HI	310-643-3200	7:30 a.m4:00 p.m.	808-840-6100
Houston Hobby, TX Indianapolis Intl, IN	817-222-5006 847-294-8400	8:00 a.m5:00 p.m. 8:00 a.m4:00 p.m.	713-847-1400
Kahului/Maui, HI	310-643-3200	7:30 a.m.–4:00 p.m.	317-484-6600 808-877-0725
Kansas City Intl, MO	816-329-3000	7:30 a.m.–4:00 p.m.	816-329-2700
Las Vegas McCarran, NV	310-725-3300	7:30 a.m.–4:00 p.m.	702–262–5978
Los Angeles Intl, CA	310-725-3300	7:00 a.m.–3:30 p.m.	310-342-4900
Louis Armstrong New Orleans			
Intl, LA	817-222-5006	7:00 a.m4:30 p.m.	504-471-4300
Memphis Intl, TN	404-305-5180	7:30 a.m4:00 p.m.	901-322-3350
Miami Intl, FL	404-305-5180	7:00 a.m4:00 p.m.	305-869-5400
Minneapolis/St. Paul, MN	847-294-8400	8:00 a.m4:00p.m.	612-713-4000
Nashville Intl, TN	404-305-5180	7:00 a.m3:30 p.m.	615-781-5460
New York Kennedy Intl, NY	718-995-5426	8:00 a.m4:30 p.m.	718-656-0335
New York La Guardia, NY	718-995-5426	8:00 a.m4:30 p.m.	718-335-5461
Newark Liberty Intl, NJ	718-995-5426	8:00 a.m4:30 p.m.	973-645-3103
Norman Y. Mineta San Jose Intl, CA Ontario Intl, CA	310-643-3200 310-643-3200	7:30 a.m4:00 p.m. 7:30 a.m4:00 p.m.	408–982–0750 909–983–7518
Orlando Intl, FL	404-305-5180	7:30 a.m.–4:00 p.m. 7:30 a.m.–5:00 p.m.	407-850-7000
Philadelphia Intl, PA	718-995-5426	8:00 a.m.–4:30 p.m.	215-492-4100
Phoenix Sky Harbor Intl, AZ	310-643-3200	7:30 a.m.–4:00 p.m.	602-379-4226
Pittsburgh Intl, PA	718-995-5426	8:00 a.m4:30 p.m.	412-269-9237
Portland Intl, OR	425-227-1389	7:30 a.m.–4:00 p.m.	503-493-7500
Raleigh-Durham, NC	404-305-5180	8:00 a.m4:30 p.m.	919-840-5544
Ronald Reagan Washington			
National, DC	718-995-5426	8:00 a.m4:30 p.m.	703-413-1535
Salt Lake City, UT	425-227-1389	7:30 a.m4:00 p.m.	801-325-9600
San Antonio Intl, TX	817-222-5006	8:00 a.m4:30 p.m.	210-805-5507
San Diego Lindbergh Intl, CA	310-725-3300	8:00 a.m4:30 p.m.	619-299-0677
San Francisco Intl, CA	310-643-3200	7:00 a.m3:30 p.m.	650-876-2883
San Juan Intl, PR	404–305–5180	7:30 a.m5:00 p.m.	809-253-8663
Seattle-Tacoma Intl, WA	425-227-1389	7:30 a.m4:00 p.m.	206-768-2900
St. Louis Lambert, MO	816-329-3000	7:30 a.m4:00 p.m.	314-890-1000
Tampa Intl, FL	404–305–5180 907–271–5936	7:30 a.m4:00 p.m.	813–371–7700 907–271–2700
Ted Stevens Anchorage Intl, AK Teterboro, NJ	718-995-5426	7:30 a.m4:00 p.m. 8:00 a.m4:30 p.m.	201–271–2700
Washington Dulles Intl, DC	718-995-5426	8:00 a.m.–4:30 p.m. 8:00 a.m.–4:30 p.m.	703-661-6031
West Palm Beach, FL	404-305-5180	8:00 a.m.–4:30 p.m.	407-683-1867
Westchester Co, NY	718-995-5426	8:00 a.m.–4:30 p.m.	914-948-6520
*Facilities can be contacted through the			

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

(R)ATLANTA CENTER

H-6-9-10-12, L-18-22-24-25-26-36, A-1 (KZTL)

Albemarle - 133.15

Anniston - 134.95

Athens - 127.5 127.5 124.45 120.425

Atlanta A - 135.0

Augusta - 128.1

Birmingham - 134.05 128.725 Black Jack Mountain - 127.05

Chattanooga - 133.175 132.05 126.675 124.875

Columbus - 125.575 120.45

Crossville - 133.6 132.675 125.925

Foothills - 124.375 Gadsden - 133.8

Glade Springs - 127.85

Greensboro - 128.8 124.425

Hampton - 128.0 127.125 126.475 124.325

Hickory - 134.55 132.975 125.15

Huntsville - 126.825

Jonesville - 125.025 119.575

Macon - 134.5 126.425 123.95 119.575

Millen - 135.55

Monroeville - 118.55

Montgomery - 134.6 128.025 125.875 120.55

Mount Oglethorpe - 134.8 133.1 121.35

Newport - 134.075 127.55 Owing - 135.35 125.625 123.725

Statham - 132.475 132.475

Sugarloaf Mountain - 132.625

Tri City - 126.775 120.725 Uniontown - 133.25 132.25

(R)HOUSTON CENTER - 134.35

H-6-7-8-9, L-17-18-19-20-21-22

H-5-9-10-12, L-16-25-26-27-29

(KZHU)

(KZID)

Arr-Dep US - 135.77 134.95 133.75 133.4 132.65 132.4 128.3 127.8 125.75 120.35

Mobile - 127.65 125.775

RINDIANAPOLIS CENTER - 133.425 132.775 128.375 125.55

124.525 119.55 Evansville - 132.525 128.3

Livingston - 134.675 126.925

London 2 - 126.57 124.625 121.325

Lvnch - 126.575

New Hope - 124.625 121.175

Portsmouth - 124.225 120.275

Tri City - 124.575

Winchester - 128.22 126.375 123.775

R JACKSONVILLE CENTER

H-6-7-8-9-12, L-18-21-22-24-25-35-36, A-1 (KZJX)

Arr-Dep US-South Atlantic Control N of 31°30' - 135.05 S of 31°30'N 134.85

Albany - 134.45 125.75

Alma - 135.975 133.3 132.3

Charleston - 135.05 133.625 132.475 127.95 124.075

Columbia - 127.875 124.7

Crestview - 134.15 124.475 120.2

Davtona Beach - 134.0 Dothan - 134.3

Eglin - 132.1

Florence - 134.35 133.45

Gainesville - 135.65 134.4 124.75

Glynco - 126.75

Jacksonville - 134.85 126.35

Lake City - 125.375

Lowell - 135.75 133.325 125.175

Millen - 132.5

Myrtle Beach - 135.05 128.7

CONTINUED ON NEXT PAGE

AIR ROUTE TRAFFIC CONTROL CENTERS

CONTINUED FROM PRECEDING PAGE

Panama City - 119.1

Perry Foley - 127.8

St. Augustine - 134.575 132.825 127.475 126.35

Savannah - 132.425 126.125 120.85

Tallahassee - 135.325 128.625 128.075 125.05

Valdosta - 133.7 125.95

(R)MEMPHIS CENTER — 127.975 124.025

H-5-6-9, L-15-16-17-18-22-25-26

(KZME)

Columbus - 134.775 133.125 127.1 Graham - 125.85 124.275

Huntsville - 120.8

McKellar - 134.65 127.975 126.45 124.35

Memphis - 135.225 118.625

Nashville - 133.85 124.125 118.875

Nashville/Joelton 132.1 Paducah - 133.65 Shelbyville - 126.75 South Fulton - 128.05 Tupelo - 135.9 135.9 134.4

R MIAMI CENTER

H-8. L-21-22-23-24. A-1

(KZMA)

Avon Park - 134.55 127.2 126.525 Fort Myers - 134.75 133.275

Grand Bahama Island - 134.2

Grand Turk - 135.2 132.3

Key West - 133.5 132.2 132.2 124.7 124.7 Melbourne - 135.075 128.65 124.1 119.825

Miami - 132.95 133.85 133.2 133.95 132.4 127.7 126.325 124.7 124.7

Nassau - 134.8 125.7

Pahokee - 133.55 132.45

Sarasota - 133.9 132.35 128.225 Vero Beach - 135.7 132.25 125.075

West Palm Beach - 135.175 133.4 132.15

CENTER REMARKS: All northbound IFR flights entering Miami in vicinity of Grand Turk and Great Inagua must contact Miami Center on 132.3/307.2 at least 10 minutes prior to the Miami Center boundary for an air traffic clearance. Alternate communications are avbl thru ARINC or Miami Radio. This is due to heavy air traffic congestion in this area.

R SAN JUAN CENTER

H-2-3, L-5-6 (ZSU) (MJZS)

Boringuen - 135.7 135.7 124.35

El Yungue - 134.3 134.3 128.65 128.6 125.0 125.0 118.75 118.75 118.15 118.15

Pico Del Este - 134.3 134.3 128.65 128.65 125.0 125.0 118.15 118.15

CENTER REMARKS: All acft on an IFR flight plan in the San Juan CTA and within 200 NM of San Juan are requested to ctc San Juan Center on the following frequencies: Amber 300 clockwise thru Amber 523—134.3; East of Amber 523 clockwise to North of Blue 520—125.0; Blue 520 clockwise thru Amber 636—118.15; Red 763 clockwise thru Green 431—135.7. San Juan Cerap provides IFR clearances for St Croix Christiansted on freq 121.7 when St Croix twr closed. San Juan Cerap provides IFR clearances for St Thomas Charlotte Amalie-Harry S Truman on freq 121.9 when twr closed. San Juan Cerap provides IFR clearances for Ponce-Mercedita on freq 121.9. San Juan Cerap provides IFR clearances for Mayaguez-Eugenio Maria De Hostos on freg 121.7.

RWASHINGTON CENTER

H-9-10-12, L-24-25-26-29-34-35-36

Arr-Dep US - 135.5 133.82 133.12 132.55 128.52 127.7 127.42 124.02 123.85 118.82

(KZDC)

Green Bay - 133.725 127.75 Johnsonville - 135.2 118.925

Manteo - 124.725

New Bern - 135.5 118.825

Rocky Mount - 118.475 132.225

Sampson - 135.3

Whaleyville - 133.825 128.525 127.425 123.85

Wilmington - 124.025

VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above. "T" indicates transmit only and "R" indicates receive only. RCO's available at NAVAIDS are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

ANDERSON AFSS

AIKEN RCO 122.45

ALLENDALE VOR 116.7T 122.1R

ANDERSON RCO 122.2 123.6

CHARLESTON VORTAC 113.5T 122.1R 122.2 122.5

CHESTERFIELD VOR/DME 108.2T 122.05R

COLLIERS VORTAC 113.9T 122.1R

COLUMBIA VORTAC 114.7T 122.1R 122.65

FLORENCE VORTAC 115.2T 122.1R 122.6

FOOTHILLS VORTAC 113.4T 122.1R

FORT MILL VORTAC 112.4T 122.1R

GRAND STRAND VORTAC 117.6T 122.1R 123.6

GREENWOOD VORTAC 115.5T 122.1R 122.625

GREER RCO 122.2 122.65

HILTON HEAD ISLAND RCO 122.55

SPARTANBURG VORTAC 115.7T 122.1R

VANCE VORTAC 110.4T 122.1R

ANNISTON AFSS

ANNISTON RCO 122.2 123.6

BIRMINGHAM RCO 122.2 123.65

BROOKLEY VORTAC 112.8T 122.1R

CRIMSON VORTAC 117.8T 122.1R

DECATUR RCO 122.6

DOTHAN RCO 122.2 122.5

EUFAULA VORTAC 109.2T 122.1R

GADSDEN VOR/DME 112.3T 122.1R

HAMILTON RCO 122.3

HUNTSVILLE RCO 122.2

MOBILE RCO 122.2 123.65 MONROEVILLE VORTAC 116.8T 122.1R

MONTGOMERY VORTAC 112.1T 122.1R 122.2 122.55

MUSCLE SHOALS RCO 122.2 122.4

SELMA RCO 122.4

TALLADEGA VOR/DME 108.8T 122.05R

TUSCALOOSA RCO 122.2

TUSKEGEE VOR/DME 117.3T 122.1R

VULCAN VORTAC 114.4T 122.1R

WIREGRASS VORTAC 111.6T 122.1R

GAINESVILLE AFSS 122.1R 122.2 122.5 123.65

CRAIG VORTAC 114.5T 122.1R 122.2 122.45

CRESTVIEW RCO 122.0 122.2 122.45

CROSS CITY VORTAC 112.0T 122.1R

GATORS VORTAC 116.2T 122.1R

GREENVILLE VORTAC 109.0T 122.1R

LAKE CITY RCO 122.6

MARIANNA VORTAC 114.0T 122.1R

OCALA VORTAC 113.7T 122.1R

PALATKA RCO 122.25

PANAMA CITY VORTAC 114.3T 122.1R

PENSACOLA RCO 122.2 122.6

PERRY RCO 122.45

ST AUGUSTINE RCO 122.3

SAUFLEY VOR 108.8T 122.1R

SEMINOLE VORTAC 117.5T 122.1R 122.2 122.4

TAYLOR VORTAC 112.9T 122.1R

JACKSON AFSS

CLARKSVILLE VOR/DME 110.6T 122.1R
DYERSBURG RCO 122.2 122.45
GRAHAM VORTAC 111.6T 122.1R 122.25
JACKS CREEK VOR/DME 109.4T 122.1R
JACKSON RCO 122.2 122.65 127.15
MEMPHIS VORTAC 117.5T 122.1R 122.2 123.65

LOUISVILLE AFSS

BOWLING GREEN RCO 122.2 122.4 CENTRAL CITY VORTAC 109.8T 122.1R CINCINNATI VORTAC 117.3T 122.1R FALMOUTH VOR/DME 117.0T 122.1R FRANKFORT VOR 109.4T 122.1R HAZARD VOR/DME 111.2T 122.1R LEXINGTON VORTAC 112.6T 122.1R LONDON VORTAC 116.1T 122.1R 122.2 122.65 LOUISVILLE RCO 122.1R 122.2 122.45 MADISON RCO 122.3 NEW HOPE VOR/DME 110.8T 122.1R NEWCOMBE VORTAC 110.4T 122.1R OWENSBORO VOR/DME 108.6T 122.1R PADUCAH RCO 122.2 122.5 PIKEVILLE RCO 122.05 SOMERSET RCO 122.55

YORK VORTAC 112.8T 122.1R

MACON AFSS

ALBANY RCO 122.6

ALMA VORTAC 115.1T 122.1R 123.6

ATHENS VORTAC 109.6T 122.1R

ATLANTA VORTAC 116.9T 122.1R 122.2 122.6

BRUNSWICK VORTAC 109.8T 122.1R 122.2

CHOO CHOO VORTAC 115.8T 122.1R

COLUMBUS VORTAC 117.1T 122.1R 122.65

DANIEL RCO 122.3

DUBLIN VORTAC 113.1T 122.1R 122.6

GAINESVILLE RCO 122.55

HARRIS RCO 122.35

LAGRANGE VORTAC 115.6T 122.1R

MACON RCO 122.0 122.1R 122.2 122.4

MOULTRIE VOR/DME 108.8T 122.1R

PEACHTREE VOR/DME 116.6T 122.1R

ROME RCO 122.3

SAVANNAH VORTAC 115.95T 122.1R 123.65

STATESBORO RCO 122.6

THOMASVILLE RCO 122.55

TIFT MYERS RCO 122.35

VALDOSTA VOR/DME 114.8T 122.1R 122.2

VIENNA VORTAC 116.5T 122.1R

WAYCROSS VORTAC 110.2T 122.1R

MIAMI AFSS 122.2 122.3 122.55 123.65 MIAMI IFSS 127.9 126.9 126.7

DADE COLLIER RCO 122.3

DAVIE RCO 126.7

DOLPHIN VORTAC 113.9T 122.1R

FORT MYERS RCO 122.1R 122.2 122.65

FORT PIERCE RCO 122.55

KEY WEST VORTAC 113.5T 122.1R 122.2 123.65

LA BELLE VORTAC 110.4T 122.1R

MARATHON RCO 122.6

NAPLES RCO 123.6

PAHOKEE VORTAC 115.4T 122.1R 122.35

PALM BEACH VORTAC 115.7T 122.1R 122.4

VIRGINIA KEY VOR/DME 117.1T 122.1R

NASHVILLE AFSS

BRISTOL RCO 122.2

CHATTANOOGA RCO 122.2 123.65

CROSSVILLE RCO 122.2 122.5

HINCH MOUNTAIN VORTAC 117.6T 122.1R

HOLSTON MOUNTAIN VORTAC 114.6T 122.1R

LIVINGSTON VORTAC 108.4T 122.1R

MCGHEE TYSON RCO 122.2 122.3

NASHVILLE RCO 122.1R 122.2 122.55

SHELBYVILLE VOR/DME 109.0T 122.1R

VOLUNTEER VORTAC 116.4T 122.1R

RALEIGH AFSS

BARRETTS MOUNTAIN VOR/DME 110.8T 122.1R

CHARLOTTE RCO 122.4

COFIELD VORTAC 114.6T 122.1R

ELIZABETH CITY VOR/DME 112.5T 122.05R 122.2

FAYETTEVILLE VOR/DME 108.8T 122.1R

GREENSBORO VORTAC 116.2T 122.1R 122.2 123.65

HATTERAS RCO 122.3

HICKORY RCO 122.2 122.6

KINSTON VORTAC 109.6T 122.15R

LIBERTY VORTAC 113.0T 122.1R

NEW BERN VOR/DME 113.6T 122.1R 122.2 122.4

PITT-GREENVILLE RCO 122.35

RALEIGH RCO 122.2 122.45 122.65

ROCKY MOUNT RCO 122.2 122.3

SANDHILLS VORTAC 111.8T 122.1R

SNOWBIRD VORTAC 108.8T 122.1R

SUGARLOAF MOUNTAIN VORTAC 112.2T 122.1R 122.2 122.3

TAR RIVER VORTAC 117.8T 122.1R

WILKESBORO RCO 122.4

WILMINGTON VORTAC 117.0T 122.1R 122.55

SAINT PETERSBURG AFSS

BROOKSVILLE RCO 122.3

FORT DRUM RCO 122.2

LAKELAND VORTAC 116.0T 122.1R

MELBOURNE VOR/DME 110.0T 122.1R 122.6

ORLANDO VORTAC 112.2T 122.1R 122.2 122.65 123.65

ORMOND BEACH VORTAC 112.6T 122.1R 122.4

PUNTA GORDA RCO 122.025

ST PETERSBURG VORTAC 116.4T 122.1R 122.2 122.45 123.6

SARASOTA VORTAC 115.2T 122.1R

SEBRING RCO 122.25

TITUSVILLE RCO 123.6

VERO BEACH VORTAC 117.3T 122.1R 122.2 122.5

SAN JUAN AIFSS

BORINQUEN VORTAC 113.5T 122.1R

MAYAGUEZ VOR/DME 110.6T 122.1R

PONCE VOR/DME 109.0T 122.1R

ST CROIX VOR/DME 108.2T 122.1R

ST THOMAS VOR/DME 108.6T 123.6R

SAN JUAN RCO 126.7 123.65 122.2

FLIGHT STANDARDS DISTRICT OFFICES (FSDO)

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manager, Flight Standards District Office–Federal Aviation Administration.

ALABAMA

Liberty Park Building 1500, Suite 250 1500 Urban Center Drive Vestavia Hills, AL 35242 Telephone: 205–731–1557

FLORIDA

Ft. Lauderdale Jet Center 1050 Lee Wagener Blvd. Ft. Lauderdale, FL 33315 Telephone: 954–635–1300

5950 Hazeltine National Drive Suite 500 Orlando, FL 32822–5023 Telephone: 407–812–7700 Fax: 407–812–7710

8600 NW 36th Street Miami, FL 33166 Telephone: 305-716-3400

5601 Mariner St, Suite 310 Tampa, FL 33609 Telephone: 813–287–4900 Fax: 813–639–1551

GEORGIA

Campus Building 1701 Columbia Ave. Suite 2–110 College Park, GA 30337–2748 Telephone: 404–305–7200 Fax: 404–305–7215

KENTUCKY

1930 Bishop Lane Waterson Towers, 11th Floor Louisville, KY 40218 Telephone: 502–753–4200

NORTH CAROLINA

6433 Bryan Blvd. Greensboro, NC 27409 Telephone: 336-662-1000

3800 Arco Corporate Drive, Suite 233

Charlotte, NC 28273 Telephone: 704-319-7020

PUERTO RICO

525 F.D. Roosevelt Ave. La Torre de Plaza, Suite 901 San Juan, PR 00918 Telephone: 787-764-2538

SOUTH CAROLINA

125-B Summer Lake Drive West Columbia, SC 29170 Telephone: 803-765-5931

TENNESSEE

2 International Plaza Drive, Suite 700 Nashville, TN 37217

Telephone: 615-324-1300

2842 Business Park Drive, Bldg G Memphis, TN 38118 Telephone: 901–322–8600

ROUTES PREFERRED IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

- 1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.
- 2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
- 3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
- 4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
 - 5. Where more than one route is listed the routes have equal priority for use.
 - 6. Official location identifiers are used in the route description for VOR/VORTAC navaids.
 - 7. Intersection names are spelled out.
- 8. Navaid radial and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g., UIM UIM255 GSW081); or an intersection (e.g., GSW081 FITCH).
- 9. Where two navaids, an intersection and a navaid, a navaid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
- 10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
 - 11. (90-170 incl) altitude flight level assignment in hundred of feet.
- 12. The notations "pressurized" and "unpressurized" for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
 - 13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.

Sun	1300-2259 local time.
Mon thru Fri	0701-2259 local time.
Sat	0701-1459 local time.

- 14. Use current SIDs and STARSs for flight planning.
- 15. For high altitude routes, the portion of the routes contained in brackets is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

LOW ALTITUDE

Terminals	Route	Effective Times (UTC)
ATLANTA METRO AREA		
Chicago Midway (MDW)	(60-170 incl) V97 NELLO V311 HCH V51 CGT	1200-0300
Chicago O'Hare (ORD)	(60-170 incl) V97 NELLO V311 HCH V51 CGT V7	
	BEBEE	1200-0300
Cincinnati (CVG)	(80-170 incl) V97 VXV V115 AZQ V339 FLM	1200-0300
CINCINNATI METRO AREA (CVG, LUK)		
Detroit/Wayne (DTW)	DQN MIZAR-STAR	1100-0300
Detroit Satellites:		
Ann Arbor (ARB)	DQN CRUXX-STAR	1100-0300
Pontiac (PTK),		
Willow Run (YIP)	DQN CRUXX-STAR	
Windsor (CYQG),		
Young (DET)	V275 KLINE VWV VWV064 LYNTN	

Terminals	Route	Effective Times (UTC)
From COVINGTON (CVG) only	V07 1848 / V007 1170 V400 W0444	4400 0000
Atlanta (ATL)	V97 VWV V267 HRS V463 WOMAC	1100-0300
Chicago Midway (MDW)	V128 VHP BVT V97 CGTV128 VHP BVT V97 CGT V7 BEBEE	1100-0300
Chicago O'Hare (ORD)	V128 VHP BV1 V97 CG1 V7 BEBEEV128 VHP	1100-0300 1100-0300
Indianapolis (IND) Knoxville (TYS)	HYK V97	1100-0300
Louisville (SDF)	CVG206 IIU055 IIU	1100-0300
Pittsburgh (PIT)	(60–170 incl) V128 YRK V44 JPU V117 WISKE	1100 0000
	WISKE-STAR	1100-0300
DAYTONA BEACH		
Miami (MIA)	(110 and below) V3 MLB V437 PHK V267 BRIKL	1300-0300
FT LAUDERDALE METRO AREA (FLL, FXE, PMP)		
Cross City (CTY)	(at or below 50) DHP V97 LBV V157 LAL V7	1030-0300
	(60–170) V511 LAL V7	1030-0300
Daytona Beach (DAB)	(at or below 100) PBI V3 SMYRA	1030-0300
	(110-170) V159 TBIRD MLB V3	1030-0300
Ft. Myers (FMY)(RSW)	(at or below 50) DHP V521	1030-0300
Ft. Pierce (FPR)	(at or below 100) V3	1030-0300
	(110–170) V159 TBIRD	1030-0300
Gainesville (GNV)	(at or below 50) DHP V97 LBV V157	1030-0300
	(60–170) V511 LAL V157	1030-0300
Jacksonville (JAX)	(at or below 90) PBI V3 OMN V51 CRG	1030-0300
,	or	
	(130–170) ORL V267 CRG or	1030-0300
Labeland (LAL)	V159 VRB V3 OMN V51 CRG	4000 0000
Lakeland (LAL)	(at or below 50) DHP V97 LBV110 V157	1030-0300
	or (60–170) V511	1020 0200
Melbourne (MLB)	(at or below 100) V3	1030-0300 1030-0300
	or	1000 0000
	(110-170) FLL V159 TBIRD	1030-0300
Ocala (OCF)	(at or below 50) DHP V97 LBV V157	1030-0300
	Or (00 470) V544 LAL V457	4000 0000
Orlando (MCO)	(60–170) V511 LAL V157	1030-0300
Orlando (MCO)	(at or below 100) PBI V531 ORLor	1030-0300
	(110-170) V159 TBIRD V531 ORL	1030-0300
Sarasota/Bradenton (SRQ)	(60-170) LBV V97 ROGAN	1030-0300
	or	
	(60–170) SRQ	1030–3000
	(at or below 50) DHP V97 ROGAN	1030-0300
	(60–170) ROGAN	1030-0300
Tallahassee (TLH)	(at or below 50) DHP V97 LBV V157 LAL V7 SZW.	1030-0300
	(60–170) V511 LAL V7 SZW	1030-0300
Tampa (TPA)	(60–170) LBV BRDGE–STAR	1030-0300
	or	
	(60-170) BRDGE BRDGE-STAR	1030-0300
	or (at or below 50) DHP V97 PIE	1030-0300
	or	1030-0300
	(60-170, GPS or DME/DME-IRU equipped)	
	DEAKK DEAKK (RNAV)-STAR	1030-0300
	or	
	(60–170, GPS or DME/DME-IRU equipped) LBV	4000 00
Vora Basch (VBB)	DEAKK (RNAV)-STAR	1030-0300
Vero Beach (VRB)	(at or below 100) V3	1030-0300

Terminals	Route	Effective Times (UTC)
	or (110–170) V159 TBIRD	1030-030
FORT MYERS METRO AREA (RSW, FMY, APF, MKY, PGD)	(110-170) V133 IBIND	1030-030
Daytona Beach (DAB)	ORL	1030-030
Ft. Lauderdale (FLL)	(RSW/FMY/PGD-prop/turbo) RSW V599 or	1030-030
	(RSW/FMY/PGD-turbo/jets) FORTL JINGL (RNAV)-STAR	1030-030
	or (APF/MKY prop/turbo) DRCTor	1030-030
	FORTL JINGL (RNAV)- STAR	1030-030
Ft. Pierce (FPR)	V225	1030-030
Gainesville (GNV)	V7 LAL V157	1030-030
Jacksonville (JAX)	ORL V267 CRG	1030-030
Lakeland (LAL)	V7 LAL	1030-030
Melbourne (MLB)	V225 VRB	1030-030
	V35 CURVE	1030-030
Miami (MIA)	or	
	or	1030-030
	(Turbojets–GPS or DME/DME–IRU equipped) CYY	
Orlando (MCO)	SSCOT (RNAV)-STAR(Jets) LAL ORL	1030-030
	or (Turbo/Props) ORLor	1030-030
	(Jets) LAL MINEE-STAR	1030-030
	(Jets) DOWNN MINEE-STAR	1030-030
Ocala (OCF)	(Turbo/Props) DOWNN MINEE-STAR V7 LAL V157	1030-030 1030-030
Tallahassee (TLH)	V7 SZW	1030-030
Tampa (TPA)	(at or below 100) V35 PIEor	1030-030
	(110–170) RSW BRDGE–STAR or	1030-030
	(GPS or DME/DME-IRU equipped) DEAKK	
	(RNAV)-STAR	1030-030
Vero Beach (VRB)	V225	1030-030
GAINESVILLE (GNV)		
Ft. Lauderdale (FLL)	(100 and below) V157 NEWER	0000-235
Ft. Myers (FMY)	(100 and below) V157 LAL V521	0000-23
Miami (MIA)	(100 and below) V157 LBV V529 V35 CURVE	0000-23
Orlando (ORL)	(100 and below) V157 OCF V159	1100-040
Sarasota/Bradenton (SRQ)	(100 and below) V157 LAL	0000-23
	(100 and below) V157 OCF V581 DADES	0000-23
Tampa (TPA) JACKSONVILLE METRO AREA (JAX)		
Miami (MIA) Tampa (TPA)	(100 and below) V3 MLB V437 PHK V267 BRIKL (100 and below) OCF V581 DADESor	1300-030 0000-235
	(100 and below, GPS or DME/DME-IRU	
(EY WEST METRO AREA (NQX)	equipped) OCF V581 DADES (RNAV)-STAR	0000–235
Daytona Beach (DAB)	RSW ORL	1030-030
Ft Myers (RSW)	EYW V539 GOODY(props) EYW V157 DHP	1030-030
	or (jets-all others) EYW DVALL-STAR	1030-030
	or (jets-/E,/G,/R,/J,/L,/Q) EYW CURSO (RNAV)-STAR	1030-030
	(NINA)	T030-030

Terminals	Route	Effective Times (UTC)
Melbourne (MLB)	EYW PHK	1030-0300
Miami (MIA)	(props) EYW V157	1030-0300
	(Jets-all others) EYW DVALL-STARor	1030-0300
	(Jets-/E,/G,/R,/J,/L,/Q) EYW CURSO (RNAV)-STAR	1030-0300
Orlando (MCO)	(props) EYW V225 RSW MINEE-STAR	4000 0000
Palm Beach (PBI)	(Jets) EYW V225 RSW LAL MINEE-STAR EYW PHK	1030-0300 1030-0300
Sarasota/Bradenton (SRQ)	(at or below 100) EYW V225 RSW V35 MURDO or	1030-0300
	(110-170) EYW V225 RSW V7 ROGAN	
Tallahassee (TLH)	EYW V225 RSW V7 SZW	1030-0300
Tampa (TPA)	(at or below 100) EYW V225 RSW V35 PIE	
	(110-170) EYW V225 RSW V7 ROGAN	
	BRDGE-STAR	1030-0300
	(110-170, GPS or DME/DME-IRU equipped) EYW V225	
Vero Beach (VRB)	RSW V7 ROGAN DEAKK (RNAV)-STAR EYW PHK V51	1030-0300 1030-0300
LAKELAND METRO AREA (LAL, GIF, BOW, BKV, X16)		
Ft Lauderdale (FLL)	(Jets only-all others) V7 RSW FORTL-STAR	1030-0300
Ft. Myers (FMY)	V521	1030-0300
Ft Pierce (FPR)	(at or below 140) V441 DEARY V159 or	1030-0300
	(150-170) VRB	1030-0300
Key West (EYW) Miami (MIA)	V7 RSW V225(100 and below) V157 LBV V529 V35 CURVE	1030-0300
ivilaliii (iviiA)	or (all others) CYY CYY-STAR	1030-0300
	or (Turbojets–GPS or DME/DME–IRU equipped) CYY	
Opa Locka (OPF)	SSCOT (RNAV)-STAR(props/turbo) V511 NEWER	
Opa Locka (OFT)	or	
	(Turbojets-GPS or DME/DME-IRU equipped) RSW CYY SSCOT (RNAV)-STAR	
Vero Beach (VRB)	(at or below 140) V441 DEARY V159	1030-0300
	(150–170) VRB	1030-0300
West Palm Beach (PBI)	PHK	1030-0300
Atlanta (ATL)	HYK V53 AZQ SOT WHINZ-STAR	
Kansas City (MKC)	V4 PXV V190 SGF TYGER-STAR	0000-2359
Wichita (ICT)	V4 PXV V190 SGF V132 CNU V350	0000–2359
Chicago Midway (MDW)	SPI MOTIF-STAR	0000-2359
Chicago O'Hare (ORD)	MAW V313 PNT V227 PLANO	1100-0300
	or PNT V227 PLANO	0000–2359
MIAMI METRO AREA (MIA, HWO, OPF, TMB, HST, X51)		
Cross City (CTY)	V97 LBV V157 LAL V7or	1030-0300
	LAL	1030-0300

Ferminals	Route	Effective Times (UTC)
Daytona Beach (DAB)	(at or below 100) PBI V3 SMYRA	1030-030
Ft Pierce (FPR)	(110–170) V437 MLB V3	1030-030 1030-030
	(110–170) V267 PHK V51 VRBor	1030-030
Gainesville (GNV)	FPR	1030-030
Jacksonville (JAX)	LAL(at or below 90) PBI V3 OMN V51 CRGor	1030-030 1030-030
	(at 110) PHK V437 MLB V3 OMN V51 CRG	1030-030
	(130–170) V267 CRG	1030-030
Lakeland (LAL)	V97 LBV V157 LALor	1030-030
Melbourne (MLB)	LAL(at or below 100) V3	1030-030 1030-030
Melocume (MED)	or	1000 000
	(120–170) PBI V531 TBIRD	1030-030
New Orleans (MSY)	(below FL180) LBV SRQ AM DHP V97 LBV V157	1100-03
Ocala (OCF)	or	1030-03
	LAL	1030-03
Orlando (MCO)	(at or below 100) PBI V531 ORL	
	or (110–170) V267 PHK GOOFY-STAR	1030-03
Overwater Routes to the Northeast	PERMT ILM or PERMT DIW	4000 00
Sarasota/Bradenton (SRQ)	V97 ROGAN DHP V97 LBV V157 LAL V7 SZW	1030-03 1030-03
Tallahassee (TLH)	V97 LBV BRDGE-STAR	1030-03
Tampa (117)	or	1000 00
	(GPS or DME/DME-IRU equipped) V97 LBV	4000 00
Vero Beach (VRB)	DEAKK(at or below 100) PBI V3	1030-03 1030-03
vero beach (VRb)	or	1030-03
	(110–170) V267 PHK V51or	1030-03
ACIDALE	(110–170) VRB	1030-03
ASHVILLE Tallahassee (TLH)	RQZ TDG TGE RRS	1100-23
RLANDO METRO AREA (MCO, ORL, ISM,	NQZ TOU TUE INIO	1100-23
LEE, SFB) Ft Lauderdale (FLL)	(at or below 100) PHK V267 BRIKL	1030-03
	or (110–170) PHK V267 BRIKL	1030-03
Ft Pierce (FPR)	V159 VRB	1030-03
Key West (EYW)	RSW V225	1030-03
Miami (MIA)	(at or below 100) PHK V267 BRIKL	1030-03
West Palm Beach (PBI)	(props/turbo props) V159 VRB V295 STOOP V492	1030-03
	or (Jets only) PHK	1030-03
	or (Turbojets-GPS or DME/DME-IRU equipped)	
ALM DEAGLEMETRO ADEA (DD), DOT	DEARY VRB FRWAY (RNAV)-STAR	
PALM BEACH METRO AREA (PBI, BCT, LNA, UTX, SUA)		
Cross City (CTY)	(at or below 140) V531 BAIRN OCF V159	
	or (150–170) LAL V7	1030-030
	(±00 ±10) LAL ¥1	1030-030

	_	Effective Times
Terminals	Route	(UTC)
Daytona Beach (DAB)	V3 SMYRA	1030-0300
	or V531 TBIRD MLB V3 SMYRA	1030-0300
Ft. Myers (RSW)	RSW	1030-0300
Jacksonville (JAX)	(at or below 110) V3 VRB V51 CRG or	
	(130-170) ORL V267 CRG	1030-0300
Lakeland (LAL)	LBV V157	1030-0300
	Or (SUA Don) I AI	
Melbourne (MLB)	(SUA Dep) LAL	
Weibourie (WED)	or	
	(120–170) PBI V531 TBIRD	1030-0300
Ocala (OCF)	(at or below 140) V531 BAIRN OCF	
	or	
	(150-170) LAL OCF	
Orlando (ORL/MCO)	V531 BAIRN GOOFY-STAR	1030-0300
Overwater Routes to the Northeast	A699 STIFF AR7	
Sarasota/Bradenton (SRQ)	LBV V97 ROGANor	
	(SUA Dep) SRQ	
Tallahassee (TLH)	(at or below 140) V531 BAIRN OCF V159 CTY V7	
Tanana5555 (1211)	SZW	
	or	
	(150–170) LAL V7 SZW	1030-0300
Tampa (TPA)	LBV BRDGE-STAR	
	or	
	BRDGE BRDGE-STAR	1030-0300
	OF	
	(GPS or DME/DME-IRU equipped) DEAKK DEAKK	1000-0300
	(RNAV)-STAR	1000-0300
	(GPS or DME/DME-IRU equipped) LBV DEAKK	
	(RNAV)-STAR	1000-0300
Vero Beach (VRB)	(at or below 100) PBI V3	
	or	
	(110-170) V531 TBIRD	1030-0300
From STUART (SUA) only:		
Cross City (CTY)	(at or below 120) BAIRN OCF V159	
	or (130, 170) LAL V7	1030-0300
Lakeland (LAL)	(130–170) LAL V7 TBIRD V531 ODDEL V441 LAL	1030-0300
Ocala (OCF)	TBIRD V531 BAIRN	1030-0300
Tallahassee (TLH)	(at or below 120) BAIRN OCF V159 CTY V7 SZW	
	or	
	(130-170) LAL V7 SZW	1030-0300
SARASOTA/BRADENTON AREA (SRQ)		
Ft Lauderdale (FLL)	(at or below 100, below 210 kts) RSW V599	
,	NEWER	
	or	
	(110-170), below 210 kts) LBV V157 NEWER	
	or	
	(at or above 210 kts) V579 RSW V7 KUBIC	
	Or (all others) DSW FORTL STAR	1030-0300
	(all others) RSW FORTL–STAR	1030-0300
	(/E, /G, /R, /J, /L, /Q) RSW SWAGS	
	(RNAV)-STAR	
Ft Myers (RSW)	V579 RSW	1030-0300
Orlando (MCO)	LAL MINEE-STAR	1030-0300
West Palm Beach (PBI)	SABEE JOOOE WLACE (RNAV)-STAR	
TALLAHASSEE AND CROSS CITY AREA	/400	4400 05
Ft Myers (FMY)	(120 and below) CTY V7 LAL V521(170 and below) LAL V157 LBV V529 V35 CURVE	1100-0300 1300-0300
Miami (MIA)	(110 alla Delow) LAL VIST LDV VS29 VSS CURVE	1300-0300

Terminals TAMPA/ST PETERSBURG METRO AREA (TPA, SPG, PIE, TPF)	Route	Effective Times (UTC)
Ft Lauderdale (FLL)	(Jets only) RSW V7 KUBIC FLL	
rt Lauderdale (FLL)	or	
	(all others) RSW FORTL-STAR	
	(Turboprop-all others) RSW FORTL-STAR or	1030-0300
	(props only) V509 HALLR V511 NEWER or	1030-0300
	(GPS or DME/DME-IRU equipped) SABEE RXXAN JINGL (RNAV)-STAR	
Ft Myers (RSW)	PIE V579 RSW	
	(Turbojets-GPS or DME/DME-IRU equipped) SRQ	
	TYNEE (RNAV)-STAR	
Ft Pierce (FPR)	(at or below 140) V441 DEARY V159	
	or	
	(150-170) VRB	1030-0300
Key West (EYW)	PIE V35 RSW V225	
	or	
	V579 RSW V225	1030-0300
Miami (MIA)	RSW V35 CURVEor	1030-0300
	(all others) CYY CYY-STAR	1030-0300
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) CYY	
	SSCOT (RNAV)-STAR	
Opa Locka (OPF)	(props) V509 HALLR V511 NEWER or	
	(turbo) RSW V7 KUBICor	
	(turbo) V509 HALLR V511 NEWERor	1030-0300
	(jets) RSW CYY CYY-STAR	1030-0300
	(Turbojets-GPS or DME/DME-IRU equipped) RSW CYY SSCOT (RNAV)-STAR	
Orlando (MCO)	LAL MINEE-STAR (Max alt. 12,000 ft)	1030-0300
Vero Beach (VRB)	(at or below 140) V441 DEARY V159	
	(150–170) VRB	1030-0300
West Palm Beach (PBI)	RSW PHK	
• •	or	
	(Turbojets-GPS or DME/DME-IRU equipped)	
	SABEE JOOOE WLACE (RNAV)-STAR	

NORTHEAST

PREFERRED IFR ROUTES

SPECIAL LOW ALTITUDE ARRIVAL ROUTES FOR ATLANTA TERMINAL AREA (JETS AND TURBOPROPS)

Traffic entering ZTL airspace V97 and East to		
	VXV AWSON-STAR	
	SOT ODF AWSON-STAR	
	SUG ODF AWSON-STARSPA ODF AWSON-STAR	
	ELW ODF AWSON-STAR	
SOUTHEAST	LEW ODI AWOON OTAN	
Traffic entering ZTL airspace South of V66 to	East of a line from ATL to MGR file:	
	IRQ TRBOW-STAR	
	DBN TRBOW-STAR	
	MCN TRBOW-STAR	
SOUTHWEST		
Traffic entering ZTL airspace South of V278 to	o West of a line from ATL to MGR file:	
	LDK V66 LGC MIKEE-STAR	
	MEI V56 MGM LGC MIKEE-STAR	
	MVC MGM LGC MIKEE-STAR	
	CEW MGM LGC MIKEE-STAR	
	SZW PZD CSG LGC MIKEE-STAR	
NORTHWEST		
Traffic entering ZTL airspace on V278 and No		
	IGB V278 VUZ V417 MAYES V325 DALAS	
	HAB V159 VUZ V417 MAYES V325 DALAS	
	MSL V325 DALAS	
	DCU V541 GAD V325 DALAS	
	RQZ BUNNI-STAR	
	BNA V5 GQO BUNNI-STAR	
	SYI V67 GQO BUNNI-STAR	
	BWG V243 GQO BUNNI-STAR	
	LVT V51 HCH V333 GQO BUNNI-STAR HYK V333 GQO BUNNI-STAR	
SPECIAL LOW	ALTITUDE DIRECTIONAL ROUTES	
		Effective
		Times
	Route	(UTC)
Low Altitude IFR routes for traffic overflying th		(010)
· -	PSK V37 CAE (90 and 100 only)	4400 0000
		1100-0300
	SPA V54 LOCAS (90 and 100 only)	1100-0300
	GRD V66 SDZ (30-100 only)	1100-0300
Low Altitude IFR single-direction routes for tra	, , ,	
Southbound	RMG V154 MCN (70 MSL)	1100-0300
Northbound	MCN LOGEN NELLO (70 MSL, RNAV)	1100-0300
	HIGH ALTITUDE	
		Effective
	_	Times
Terminals	Route	(UTC)
ATLANTA (ATL)		
Austin (AUS)	WEONE J239 MEI AEX LFK	1100-0300
Baltimore (BWI)	EAONE SPA J14 RIC OTT-STAR	1100-0300
Boca Raton (BCT)	(GPS or DME/DME-IRU equipped) BRAVS	
	(RNAV)-DP WALET OTK PRRIE (RNAV)-STAR	1100-0300
Boston (BOS)	EATWO GRD J209 RDU J207 FKN J79 JFK	
	ORW-STAR	1100-0300
Chicago Midway (MDW)	(/E/G/R/S/L/Q only) NOONE J89 IIU OKK FISSK	

(RNAV)-STAR....

(Non-Advanced RNAV only) NOONE J89 IIU OKK V285 CLEFT OXI CGT

1100-0300

1100-0300

Terminals	Route	Effective Times (UTC)
Chicago O'Hare (ORD)	(non-Advanced RNAV only) CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR	1100-0300
	or (/E/G/R/J/L/Q only) CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR or	1100-0300
Cincinnati (CVG) Charlotte (CLT) Cleveland (CLE)	J89 IIU MZZ OXI NOTWO J43 VXV HARDU-STAR. GRD ADENA (RNAV-STAR) SUMMT (RNAV)-DP VXV J91 BULEY J91 HNN TVT KEATN-STAR.	1100-0300 1100-0300
Columbus (CMH) Denver (DEN)	NOTWO J43 VXV J91 HNN BREMN-STAR WETWO VUZ J41 MEM RZC PER GCK J154 RYLIE	1100-0300
Detroit/Wayne (DTW)	DANDD-STAR SUMMT (RNAV)-DP VXV J91 HNN WEEDA-STAR SOONE J89 HITTR PIE FORTL-STAR	1100-0300 1100-0300
Tott Lauderdale (LL)	or (GPS or DME/DME-IRU equipped) BRAVS	1100-0300
Fort Myers (FMY and RSW)	(RNAV)-DP WALET OTK JINGL (RNAV)-STAR (Turbojets-GPS or DME/DME-IRU equipped) THRSR (RNAV)-DP LUCKK SZW TYNEE	1100-0300
Gainesville (GNV) Houston (HOU)	(RNAV)-STARSOONE J89 OTK(DME/DME-IRU or GPS-equipped) JAMMR AEX	1100-0300 1100-0300
Houston (IAH)	ROKIT (RNAV)-STAR	
Kennedy (JFK) La Guardia (LGA) Louisville (SDF) Marco Island (MKY)	JAMMR AEX TXMEX (RNAV)—STAR EATWO GRD J209 ORF J121 SIE CAMRN—STAR EAONE AHN J208 HPW J191 PXT KORRY—STAR NOONE HCH DARBY—STAR SOTWO J43 SZW PIKKR (RNAV)—STAR	1100-0300 1100-0300 1100-0300
Miami (MIA)	SOONE J89 J75 TEPEE ZEILR-STAR(all others) SOTWO SZW J43 PIE CYY-STAR	1100-0300
Minneapolis (MSP) Naples (APF)	(Turbojets-GPS or DME/DME equipped) THRSR (RNAV)-DP LUCKK SZW SSCOT (RNAV)-STAR NOONE J89 IIU J89 BAE EAU-STAR SOTWO J43 SZW PIKKR (RNAV)-STAR	1100-0300 1100-0300
Newark (EWR)	GSO J14 J51 FAK DYLIN-STARor (GPS or DME/DME-IRU equipped) GSO J14 J51	1100-0200
Orlando (MCO)	FAK PHLBO (RNAV)-STAR SOONE J89 OTK LEESE-STAR or	1100-0200 1100-0300
Orlando (ORL)	(GPS or DME/DME-IRU equipped) SOONE J89 OTK PIGLT (RNAV)-STAR(GPS or DME/DME-IRU equipped) SOONE J89 OTK PIGLT (RNAV)-STAR	1100-0400 1100-0400
Philadelphia (PHL) Raleigh-Durham (RDU) Sarasota/Bradenton (SRQ) Tampa (TPA)	EAONE SPA J14 J51 FAK DPNT-STAR EATWO IRQ CAE BUZZY-STAR J43 SZW CLAMP-STAR SOTWO J43 SZW DARBS-STAR	1100-0300 1100-0300 1100-0300 1100-0300
Teterboro (TEB)	or (GPS or DME/DME–IRU equipped) SOTWO J43 SZW FOXXX (RNAV)–STAR	1100-0300 1100-0300
	JAIKE-STAR or (Non-Advanced Nav Only) EAONE SPA J14 J51 FAK BRV AML J227 J49 J70 LVZ LVZ-STAR	1100-0300

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Washington Natl (DCA)	
or	1100-0300
EAONE SPA J14 RIC IRONS-STAR	4400 0200
Windsor Locks (BDL) EATWO GRD J209 RDU J207 FKN J79 JFK DPK	1100-0300 1100-0300
AUGUSTA (AGS) Kennedy (JFK) GRD J209 ORF J121 SIE CAMRN-STAR BIRMINGHAM (BHM)	1100 0000
Baltimore (BWI)	
or	1100-0300
	1100-0300 0000-2359
BNA CCT VHP FWA MIZAR-STAR Houston (HOU)(DME/DME-IRU or GPS-equipped) MEI AEX ROKIT (RNAV)-STAR	
(Non-advanced NAV only) MEI AEX DAS-STAR Houston (IAH)	
(Non-advanced NAV only) MEI AEX DAS-STAR Washington Dulles (IAD)	
(GPS or DME/DME-IRU equipped) ATL J014 RIC OJAAY (RNAV)-STAR CHARLESTON (CHS)	
Baltimore (BWI)	1100-0400
RIC RAVNN (RNAV)-STAR	1100-0400
or (Non-advanced NAV only) MGM J37 SJI AEX DAS-STAR Houston (IAH) (DME/DME-IRU or GPS-equipped) MGM J37 SJI WOLDE (RNAV)-STAR	
or (Non-advanced NAV only) MGM J37 SJI AEX DAS-STAR Philadelphia (PHL)	1100-0400
(GPS or DME/DME-IRU equipped) J55 FLO J207 RDU FAK BARIN-STAR CHARLOTTE (CLT) Baltimore (BWI)	1100-0300
or (GPS or DME/DME-IRU equipped) MERIL RDU	1100-0300
Boston (BOS) MERIL RDU J207 FKN J79 JFK ORW-STAR	1100-0300

Chicago O'Hare (ORD)	F erminals	Route	Effective Times (UTC)
Chicago O'Hare (ORD). (F.G/R/J.//_O only) SADIE FLM HEVAN MZZ ROYKO (RNAV)-STAR			1100-030
(Inon-advanced RNAV only) SADIE FLM HEVAN MZZ MZZ3A4/33 OXI NAVO,-STAR	Chicago O'Hare (ORD)	(/E/G/R/J/L/Q only) SADIE FLM HEVAN MZZ	1100-030
Denver (DEN).	Cincinnati (CVG)	(non-advanced RNAV only) SADIE FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR	1100-030
Denver (DEN).		or	
Detroit, Wayne (DTW).	Denver (DEN)	HARAY SPA SPA270 VXV125 VXV BNA FAM J112	
(DME/DME-RU or GPS-equipped) AHN ATL J14		HUGO-DP ROBAY BKW GEMNI-STAR (DME/DME-IRU or GPS-equipped) AHN MGM J37	1100-030
(Non-advanced NAV only) AHN ATL J14 VUZ AEX DAS—STAR or (DME/DME—IRU or GPS equipped) AHN MGM J37 SJI Columbia (RNAV)—STAR (Turbojets—DME/DME—IRU or GPS—equipped) AHN ATL J14 VUZ AEX TMEX (RNAV)—STAR (Turbojets—DME/DME—IRU or GPS—equipped) AHN ATL J14 VUZ AEX TMEX (RNAV)—STAR (Non-advanced NAV only) AHN ATL J14 VUZ AEX DAS—STAR (Non-advanced NAV only) AHN ATL J14 VUZ AEX DAS—STAR (MERIL RDU J209 ORF J121 SIE CAMRN—STAR LA GUARDÍA (LGA) (MERIL RDU J255 PHW J191 PXT KORRY—STAR 1100—03 NEWARK (EWR) (GPS or DME/DME—IRU equipped) RDU FAK PHLBO (RNAV)—STAR 1100—03 Or (GPS or DME/DME—IRU equipped) RDU FAK PHLBO (RNAV)—STAR 1100—03 Philadelphia (PHL) (MERIL RDU TYI CYI V1 DRONE 1100—03 Philadelphia (PHL) (MERIL RDU LVI CYI DRONE 1100—04 MERIL RDU LVI CYI DRONE 1100—05 Or (Non-Advanced Nav Only) MERIL RDU FAK BRV AML J227 J49 J70 LVZ LVZ—STAR 1100—03 Washington Dulles (IAD) (MERIL RDU SER IFAK DAT—STAR 1100—03 Washington Natl (DCA) (MERIL RDU J52 RIC IRONS—STAR 1100—03 Washington Natl (DCA) (MERIL RDU J52 RIC IRONS—STAR 1100—03 Or (GPS or DME/DME—IRU equipped) MERIL RDU J52 RIC IRONS—STAR 1100—03 Or (GPS or DME/DME—IRU equipped) MERIL RDU J52 RIC IRONS—STAR 1100—03 Or (GPS or DME/DME—IRU equipped) MERIL RDU J52 RIC IRONS—STAR 1100—03 Or (GPS or DME/DME—IRU equipped) MERIL RDU J52 RIC IRONS—STAR 1100—03 Or (GPS or DME/DME—IRU equipped) MERIL RDU J52 RIC IRONS—STAR 1100—03 Or (RNAV)—STAR 11		(DME/DME-IRU or GPS-equipped) AHN ATL J14 VUZ AEX ROKIT (RNAV)-STAR	
Houston (IAH)		(Non-advanced NAV only) AHN ATL J14 VUZ AEX DAS-STAR	
Houston (IAH)			
DAS-STAR MERIL RDU J209 ORF J121 SIE CAMRN-STAR La Guardia (LGA) MERIL RDU J209 ORF J121 SIE CAMRN-STAR 1100-03 Louisville (LOU) SADIE LOZ V310 IIU 1100-03 1100-03 Newark (EWR) RDU FAK DYLIN-STAR 1100-03 or (GPS or DME/DME-IRU equipped) RDU FAK PHLBO (RNAV)-STAR 1100-03 Or (GPS or DME/DME-IRU equipped) RDU FAK PHLBO (RNAV)-STAR 1100-03 Or (GPS or DME/DME-IRU equipped) RDU FAK PHLBO (RNAV)-STAR 1100-03 Or (GPS or DME/DME-IRU equipped) RDU FAK PHLBO (RNAV)-STAR 1100-03 Or (RNAV)-STAR	Houston (IAH)	(Turbojets-DME/DME-IRU or GPS-equipped) AHN ATL J14 VUZ AEX TXMEX (RNAV)-STAR	
La Guardia (LGA)		(Non-advanced NAV only) AHN ATL J14 VUZ AEX	
Newark (EWR) RDU FAK DYLIN-STAR 1100-03 or (GPS or DME/DME-IRU equipped) RDU FAK PHLBO (RNAV)-STAR 1100-03 1100-03 1100-03 1100-03 1100-03 1100-03 1100-03 1100-04 1100-04 1100-04 1100-04 1100-04 1100-04 1100-04 1100-04 1100-04 1100-04 1100-04 1100-04 1100-04 1100-05	La Guardia (LGA)	MERIL RDU J55 HPW J191 PXT KORRY-STAR	1100-030
GPS or DME/DME-IRU equipped) RDU FAK		RDU FAK DYLIN-STAR	1100-030 1100-030
Norfolk (ORF)		(GPS or DME/DME-IRU equipped) RDU FAK	4400.00
Philadelphia (PHL)	Norfolk (ORF)		
Canal	Philadelphia (PHL)	MERIL RDU248 J51 FAK DPNT-STAR	1100-04
(Non-Advanced Nav Only) MERIL RDU FAK BRV		(Advanced Nav Only) MERIL RDU FAK JAIKE-STAR	1100-03
Washington Dulles (IAD). MERIL RDU248 J51 FAK COATT-STAR		(Non-Advanced Nav Only) MERIL RDU FAK BRV	4400.00
Washington Natl (DCA). MERIL RDU J52 RIC IRONS-STAR	Washington Dulles (IAD)		
(GPS or DME/DME-IRU equipped) MERIL RDU J52 OJAAY (RNAV)-STAR		MERIL RDU J52 RIC IRONS-STAR	1100 00
### Windsor Locks (BDL) ### MERIL RDU J207 FKN J79 JFK DPK DPK-STAR #### CHATTANOOGA (CHA) Chicago O'Hare (ORD) ### (/E/G/R/J/L/Q only) GLAZR HOPAP VOSTK ### HEVAN MZZ ROYKO (RNAV)—STAR		(GPS or DME/DME-IRU equipped) MERIL RDU	
Chicago O'Hare (ORD)	Windsor Locks (BDL)		
HEVAN MZZ ROYKO (RNAV)—STAR		(/E/O/D/I/I/O I-) OLAZD HODAD VOOTI/	
(non-advanced RNAV only) GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR 0000-23 CINCINNATI (CVG) Albany (ALB)	Chicago O'Hare (ORD)	HEVAN MZZ ROYKO (RNAV)-STAR	0000-235
CRNAV only) ROCKT (RNAV)-DP ROCKT CADRE		(non-advanced RNAV only) GLAZR HOPAP VOSTK	0000-23!
AHTIY PSB	CINCINNATI (CVG)	, , , , , , , , , , , , , , , , , , , ,	
AHTIY JST HAR	Albany (ALB)		
Atlanta (ATL)	Allentown (ABE)		
(all others) BLUEGRASS-DP BWG ROME-STAR Baltimore (BWI) V128 YRK HVQ J8 CSN OTT-STAR	Atlanta (ATL)	(RNAV only) BLUEGRASS-DP BWG ERLIN (RNAV)-STAR	
	Poltimore (PWI)	(all others) BLUEGRASS-DP BWG ROME-STAR	
	Balumore (BWI)	-	

Terminals	Route	Times (UTC)
	(GPS or DME/DME-IRU equipped) V128 YRK HVQ	(/
	J8 CSN RAVNN (RNAV)-STAR	
Birmingham (BHM) Boca Raton (BCT)	BLUEGRASS-DP TRFWA LVT SYI VUZ(GPS or DME/DME-IRU equipped)	
Boca Raton (BCT)	BLUEGRASS-DP TRFWA NOTWO WALET HITTR	
	LATHY PRRIE (RNAV)-STAR	
	or	
	(GPS or DME/DME-IRU equiped) BLUEGRASS-DP	
Boston (BOS)	HYK VXV J43 ATL J89 OTK PRRIE (RNAV)-STAR.	
Boston (BOS)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB HNK ALB GDM GARDNER-STAR	
Chicago O'Hare (ORD)	(Advanced NAV only) MIE MZZR ROYKO	
	(RNAV)-STAR	
	Or	
	(Non-Advance Nav only) DQN FWA KNOX-STAR or	
	DQN FWA WATSN (RNAV)-STAR	
Dallas/Ft. Worth (DFW)	IIU PXV J131 LIT BYP	
Fort Lauderdale (FLL)	(GPS or DME/DME-IRU equipped)	
	BLUEGRASS-DP TRFWA NOTWO OTK JINGL (RNAV)-STAR	
	or	
	(all others) BLUEGRASS-DP HYK VXV J43 ATL J89	
5	HITTR J75 FORTL-STAR	
Fort Myers (FMY)	(Turbojets-GPS or DME/DME-IRU equipped) HYK VXV J43 SZW TYNEE (RNAV)-STAR	
Fort Myers (RSW)	(GPS or DME/DME–IRU equipped) HYK VXV J43	
, , , , ,	SZW TYNEE (RNAV)-STAR	1100-0300
Harrisburg (MDT)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Houston (HOII)	AHTIY JST HAR	
Houston (HOU)	(GPS or DME/DME-IRU equiped) LIT J180 SWB ROKIT (RNAV)-STAR	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
Haveten (IAH)	DAS-STAR	
Houston (IAH)	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
Landan and CLAND	DAS-STAR	
Jackson (JAN) La Guardia (LGA)	BLUEGRASS-DP TRFWA LVT SYI VUZ JAN (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
24 44414 (241)	AHTIY PSB MILTON-STAR	1000-1800
Manchester (MHT)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Maran Jaland (MI/O/)	AHTIY PSB ALB EEN	
Marco Island (MKY) Miami (MIA)	HYK VXV J43 SZW PIKKR (RNAV)-STAR (Turbojets-GPS or DME/DME-IRU equipped)	
	BLUEGRASS-DP TRFWA NOTWO SZW SSCOT	
	(RNAV)-STAR	
	Or	
	(all others) BLUEGRASS-DP HYK VXV J43 ATL SZW J43 PIE CYY-STAR	
Mobile (MOB)	BLUEGRASS-DP TRFWA LVT SYI VUZ SJI	
Naples (APF)	HYK VXV J43 SZW PIKKR (RNAV)-STAR	
Newark (EWR) Newburgh (SWF)	ROD J29 J584 SLT FQM-STAR(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Hombulgii (SWI)	AHTIY PSB J49 HNK DNY V483 FILPS	
New Orleans (MSY)	BLUEGRASS-DP TRFWA LVT SYI VUZ J22 MEI	
	RYTHM-STAR	4406
Orlando Executive (ORL)	HYK VXV J99 IRQ J85 AMG LEESE-STAR	1100-0300
	(GPS or DME/DME-IRU equipped) HYK VXV J99	
	IRQ J85 AMG SHEMP MTATA PIGLT	
	(RNAV)-STAR	1100-0400
Orlando Intl (MCO)	HYK VXV J99 IRQ J85 AMG LEESE-STAR	1100-0300

or

Terminals	Route	Effective Times (UTC)
	(GPS or DME/DME-IRU equipped) HYK VXV J99	, ,
Philadelphia (PHL)	IRQ J85 AMG BUGGZ (RNAV)-STAR(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	1100-0400
Phoenix (PHX)	AHTIY JST BUNTS-STARFAM J78 ABQ J18	
	or	
Portland (PWM)	FAM J78 IRW J74 SJN J18(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Providence (PVD)	AHTIY PSB J49 ALB ENE (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB J49 HNK TEDDY-STAR	
Sarasota/Bradenton (SRQ)	HYK VXV J43 SZW CLAMP-STAR	
Tampa (TPA)	or	
	(GPS or DME/DME-IRU equipped) HYK VXV J43	
	SZW FOXXX (RNAV)-STAR	
Washington Dulles (IAD)	V128 YRK HVQ ROYIL-STAR or	
	V128 YRK HVQ SHANON (RNAV)-STAR	
Washington Natl (DCA)	V128 YRK HVQ WZRRD-STAR or	
	V128 YRK HVQ ELDEE (RNAV)-STAR	
West Palm Beach (PBI)	(GPS or DME/DME-IRU equipped) BLUEGRASS-DP TRFWA NOTWO OTK WLACE	
	or	
	(GPS or DME/DME-IRU equipped) BLUEGRASS-DP HYK VXV J43 ATL J89 OTK	
	WLACE	
Wilkes Barre/Scranton (AVP)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE ANTIY PSB LVZ	
Windsor Locks (BDL)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
,	AHTIY PSB RKA SWEDE SWEDE-STAR	
DAYTONA BEACH (DAB)		
Charlotte (CLT)	CRG J51 SAV J207 FLO CTF-STARor	
	(Turbojets-GPS or DME/DME-IRU equipped) CRG J51 SAV HUSTN (RNAV)-STAR	
FORT LAUDERDALE METRO AREA		
(FLL, FXE, PMP)		
Albany (ALB)	(Water–Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE	
ANIA- (ATI)	V487 CANAN V130	1000 0000
Atlanta (ATL)	J20 ORL J81 CHESN SINCA-STAR	1000-0300
	(RNAV only) J20 ORL J81 CHESN CANUK (RNAV) -STAR	1000-0300
Baltimore (BWI)	(at or below 310) J20 ORL J53 CRG J51 SAV J55	
	CHS J165 RIC OTT-STAR	1000-0300
	(Water-Turbojets) ZAPPA PERMT AR16 ILM J40 RIC OTT-STAR	1000-0300
	or	
	(at or above 330) J113 CRG J51 SAV J55 CHS J165 RIC OTT-STAR	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) (at or below 310) J20 ORL J53 CRG J51 SAV J55 CHS J165	
	RIC RAVNN (RNAV)-STAR	1000-0300
	(GPS or DME/DME-IRU equipped) (at or above	
	330) J113 CRG J151 SAV J55 CHS J165 RIC	
	RAVNN (RNAV)-STAR	1000-0300
	Or (Water Turksists CDC or DMF (DMF ID))	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J40 RIC	
	RAVNN (RNAV)-STAR	1000-0300
	INTERNATIONAL CONTRACTOR CONTRACT	1000-0300

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		Effective
Torminala	Pouto	Times
Terminals Bedford (BED)	Route (Water-Turbojets) ZAPPA PERMT AR16 ILM	(UTC)
bedioid (bEb)	KEMPR SBY J79 JFK DPK MAD HFD	
	GRAYM-STAR	
	or	
	(Water-Turbojets) (Alternate) ZAPPA WOLFO AR18	
	DIW WETRO CEBEE SWL J174 HTO ORW	
	GRAYM-STAR	
Beverly (BVY)	(Water-Turbojets) ZAPPA PERMT AR16 ILM	
	KEMPR SBY J79 JFK DPK MAD HFD	
	GRAYM-STAR	
	or	
	(Water-Turbojets) (Alternate) ZAPPA WOLFO AR18	
	DIW WETRO CEBEE SWL J174 HTO ORW	
Boston (BOS)	GRAYM-STAR(Water-Turbojets) ZAPPA PERMT AR16 ILM	
B03(011 (B00)	KEMPR SBY J79 JFK ORW-STAR	1000-0300
	or	1000 0000
	(at or below 290) J20 ORL J53 CRG J51 SAV J55	
	CHS J79 JFK ORW-STAR	1000-0300
	or	
	(at or above 330) J113 CRG J51 SAV J55 CHS	
	J79 JFK ORW-STAR	1000-0300
Bridgeport (BDR)	(Water-Turbojets) ZAPPA WOLFO AR18 DIW	
	WETRO CEBEE SWL J121 SIE V139 RICED	
Charlotte (CLT)	MAD193 KEYED(at or below 290) J20 ORL J53 CRG J51 SAV	
Ondriotte (OLT)	J207 FLO CTF-STAR	1000-0300
	or	1000 0000
	(at or above 330) J113 CRG J51 SAV J207 FLO	
	CTF-STAR	1000-0300
	or	
	(at or above 330–Turbojets–GPS or	
	DME/DME-IRU equipped) J113 CRG J51 SAV	4000 0000
	HUSTN (RNAV)-STAR	1000-0300
	or (at or below 290-Turbojets-GPS or	
	DME/DME-IRU equipped) J20 ORL J53 CRG	
	J51 SAV HUSTN (RNAV)-STAR	1000-0300
Chicago Midway (MDW)	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK	
	FISSK (RNAV)-STAR	1000-0300
	or	
	(non-advanced RNAV only) CTY J91 ATL J89 IIU	
Obligate Olliera (ODD)	OKK V285 CLEFT OXI CGT	1000-0300
Chicago O'Hare (ORD)	(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT	
	GLAZR HOPAP VOSTK HEVAN MZZ ROYKO	1000-0300
	(RNAV)-STAR	1000-0300
	(non-advanced RNAV only) LAL CTY J91 ATL	
	CADIT GLAZR HOPAP VOSTK HEVAN MZZ	
	MZZ344/33 OXI KNOX-STAR	1000-0300
	(RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR	
Cincinnati (CVG)	(all others) CTY J91 VXV HARDU-STAR	1000-0300
	Of (DNAM) and OTY IOA MAY TAKE (DNAM) CTAD	
Cleveland (CLE)	(RNAV) only) CTY J91 VXV JAKIE (RNAV)-STAR J20 ORL J53 IRQ J85 HVQ J85 TVT040 KEATN	
olevelana (OLE)	KEATN-STAR	1000-0300
Columbus (CMH)	J20 ORL J81 IRQ J53 SPA J85 HVQ HNN	1000 0000
,	BREMN-STAR	1000-0300
Cross City (CTY)	J85 LLAKE CTY	1030-0300
	or	
5 H (5 + W H (5 5 H)	CTY	4000 05
Dallas/Fort Worth (DFW)	LAL J73 SZW J2 CEW J50 AEX CQY	1000-0300
	or SRQ Q100 REDFN Q105 HRV J58 AEX CQY	1000-0300
	21/6 6100 HEDLIA 6102 HEA 120 MEV OG 1	1000-0300

Terminals	Route	Effective Times (UTC)
Danbury (DXR)	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR	(0.0)
Daytona Beach (DAB) Denver (DEN)	J20 LLNCH MLB V3 LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE	1030-0300
	DANDD-STARor or SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA	1030-0300
Detroit/Wayne (DTW)	QUAIL-STAR J20 ORL J53 SPA HNN WEEDA-STAR	1030-0300
Ann Arbor (ARB)	J20 ORL J81 IRQ J99 VXV J43 FLM DQN CRUXX-STAR	
Pontiac (PTK), Windsor (CYQG) Willow Run (YIP)	J20 ORL J81 IRQ J85 DJB LLEEO-STAR J20 ORL J81 IRQ J99 VXV J43 FLM DQN	
V (755)	CRUXX-STAR	1000-0300
Young (DET) East Hampton (HTO)	J20 ORL J81 IRQ J85 DJB LLEEO-STAR (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121	1000-0300
Farmingdale (FRG)	(Water) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR	
Gainesville (GNV)	J85 LLAKE LAL GNV or LAL GNV (Water–Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 HTO	1030-0300
Hartford (HFD)	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1	
Houston (IAH)	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR	1000-0300
	(GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR or	1000-0300
Houston (HOU)	(Non-advanced NAV only) LAL J73 SZW J2 CEW-030 J50 AEX DAS-STAR(GPS or DME/DME-IRU equipped) SRQ Q100 LEV	1000-0300
Houston (Hoo)	COLUMBIA (RNAV)-STAR	1000-0300
	(GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR or	1000-0300
	(Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR	
Indianapolis (IND)	CTY J91 ATL J89 IIU DECEE–STAR(Water–Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SARDI CCC	1000-0300
Jacksonville (CRG) Kennedy (JFK)	J20 ORL J53(Water–Turbojets) ZAPPA WOLFO AR18 WETRO	1030-0300
	CEBEE SWL J121 SIE CAMRN-STAR	1000-0300
	(at or below 290) J20 ORL J53 CRG J51 SAV J55 CHS J121 SIE CAMRN-STARor	1000-0300
	(at or above 330) J113 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR	1000-0300
La Guardia (LGA)	(Water-Turbojets) ZAPPA PERMT AR16 ILM J40 TYI HPW J191 PXT KORRY-STAR or	1000-0300
	(at or below 290) J20 ORL J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR or	1000-0300
Lawrence (LWM)	(at or above 330) J113 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR(Water-Turbojets) (Alternate) ZAPPA WOLFO AR18	1000-0300
	DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR	

Terminals	Route	Effective Times (UTC)
Terminas	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD	(010)
Louisville (SDF)	GRAYM-STAR CTY J91 ATL HCH DARBY-STAR	1000-0300
Manchester (MHT)	(Water–Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN	1000 0000
Melbourne (MLB)	J20 LLNCH MLB	1030-0300
Minneapolis (MSP) Montreal (CYUL)	CTY J91 ATL J89 BAE EAU-STAR (Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR	1000-0300
Nantucket (ACK)	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO V46	
Nashville (BNA)	CTY J91 ATL GQO VOLLS-STAR(Water-Turbojets) ZAPPA PERMT AR16 ILM J109	1000-0300
	FAK DYLIN-STAR	1000-0300
	(at or below 310) J20 ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR	1000-0300
	(at or above 330) J113 CRG J51 SAV J207 FLO	
	J55 J51 FAK DYLIN-STAR	1000-0300
	(GPS or DME/DME-IRU equipped-at or above 330) J113 CRG J51 SAV J207 FLO J55 J51 FAK	
	PHLBO (RNAV)-STAR	1000-0300
	or (GPS or DME/DME-IRU equipped-at or below	
	310) J20 ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR or	1000-0300
	(GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR	1000-0300
Newburgh (SWF)	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR	
New Haven (HVN)	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED	
New Orleans (MSY)	MAD193 KEYED	1000-0300
Ocala (OCF)	J85 LLAKE LAL	1000-0300 1030-0300
ocaia (oor)	or	
Orlando (MCO)	J20 LLNCH GOOFY-STAR	1030-0300 1030-0300
Overwater Routes to the Northeast	(Water-Turbojets) ZAPPA WOLFO AR18 DIW	1030-0300
Overwater Routes to the Northwest	LBV J616or	1030-0300
Philadelphia (PHL)	LBV J616 SRQ Q100 REDFN Q105 HRV J58 J20 ORL J53 CRG J51 SAV J55 CHS J121 SWL	1030-0300
	SWL034 RADDS CEDAR LAKE-STAR or	1000-0300
	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL RADDS CEDAR LAKE-STAR	1000-0300
Pittsburgh (PIT)	(at or below 290) J20 ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR	1000-0300
	or (at or above 330) J113 CRG J51 CAE PSK EKN	
Poughkeepsie (POU)	IHD NESTO-STAR (Water-Turbojets) ZAPPA PERMT AR16 ILM	1000-0300
Providence (PVD)	KEMPR SBY J79 JFK DPK HUDSON-STAR (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO JORDN	
Raleigh-Durham (RDU)	(RNAV)-STAR(at or below 290) J20 ORL J53 CRG J51 SAV J55	
	CHS J174 ILM BRADE-STAR	1000-0300

Terminals	Route	Effective Times (UTC)
	or	
	(at or above 330) J113 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR	1000-0300
	(Water-Turbojets) ZAPPA PERMT AR16 ILM	
St Louis (STL)	BRADE-STAR THNDR CTY J151 VISQA QBALL-STAR or	1000-0300
	(/E, /G, /R, /J, /L, /Q) THNDR KPASA Q110	
	FEONA VUZ J151 VISQA QBALL-STAR	
Sarasota/Bradenton (SRQ)	LBV J43 ROGAN	1030-0300
	or	4000 0000
Springfield/Chicopee (CEF)	ROGAN(Water-Turbojets) ZAPPA PERMT AR16 ILM	1030-0300
Springheid/Chicopee (CEF)	KEMPR SBY J79 VILLS DPK DEER PARK-STAR	
Tallahassee (TLH)	J85 LLAKE LAL SZW	1030-0300
rananassee (TEII)	or	1030-0300
	LAL	1030-0300
Tampa (TPA)	J85 THNDR LBV BRDGE-STAR	1030-0300
	or	
	BRDGE BRDGE-STARor	1030-0300
	(GPS or DME/DME-IRU equipped) DEAKK DEAKK	
	(RNAV)-STAR	1030-0300
	Or	
	(GPS or DME/DME-IRU equipped) J85 THNDR	4000 0000
Toronto (CYYZ)	LBV DEAKK (RNAV)-STAR(Water-Turbojets) ZAPPA PERMT AR16 ILM J109	1030-0300
	BUF YOUTH-STAR	
Vero Beach (VRB)	J20 ARKES VRB	1030-0300
Washington Dulles (IAD)	(at or below 310) J20 ORL J53 CRG J51 SAV	
	J207 RDU FAK COATT-STAR	1000-0300
	or	
	(at or below 310–GPS or DME/DME–IRU	
	equipped) J20 ORL J53 CRG J51 SAV J207	1000 0000
	RDU FAK BARIN-STAR(at or above 330-GPS or DME/DME-IRU	1000-0300
	equipped) J113 CRG J51 SAV J207 RDU FAK	
	BARIN-STAR	1000-0300
	or	1000-0300
	(at or above 330) J113 CRG J51 SAV J207 RDU	
	FAK COATT-STAR	1000-0300
	or	
	(Water) ZAPPA PERMT AR16 ILM J109 FAK	
	COATT-STAR	1000-0300
	or	
	(Water-GPS or DME/DME-IRU equipped) ZAPPA	
Machineton Notl (DOA)	PERMT AR16 ILM J109 FAK BARIN-STAR	1000-0300
Washington Natl (DCA)	(at or below 310) J20 ORL J53 CRG J51 SAV J55	1000 0200
	CHS J165 RIC IRONS-STAR	1000-0300
	(at or above 330) J113 CRG J51 SAV J55 CHS	
	J165 RIC IRONS-STAR	1000-0300
	or	
	(Water-Turbojets) ZAPPA PERMT AR16 ILM J40	
	RIC IRONS-STAR	1000-0300
	or	
	(GPS or DME/DME–IRU equipped–at or below	
	310) J20 ORL J53 CRG J51 SAV J55 CHS J165	4000 00
	RIC OJAAY (RNAV)-STAR	1000-0300
	Or (GPS or DME/DME_IRII equipped_at or above	
	(GPS or DME/DME-IRU equipped-at or above 330) J113 CRG J51 SAV J55 CHS J165 RIC	
	OJAAY (RNAV)-STAR	1000-0300
	or	

Terminals	Route	Times (UTC)
	(Water-Turbojets-GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J40 RIC OJAAY (RNAV)-STAR	1000-0300
Westfield (BAF)	(Water-Turbojets) ZAPPA PERMIT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR	1000-0300
Westhampton Beach (FOK)	(Water-Turbojets) ZAPPA WOLFO AR18 WETRO CEBEE SWL J121 HTO	
White Plains (HPN)	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR or	
	(Water-Turboprops) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR	
Wilmington (ILM)	(Water-Turbojets-Overwater Routes to the NE) ZAPPA PERMT AR16	
Windsor Locks (BDL)	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR	
Worcester (ORH)	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD	
FORT MYERS METRO AREA (RSW, FMY, APF, MKY, PGD)		
Daytona Beach (DAB)	ORL	1030-0300
Gainesville (GNV)	LAL(GPS or DME/DME-IRU equipped) SRQ Q100 LEV	1030-0300
nouston (nou)	COLUMBIA (RNAV)-STAR	1000-0300
	(GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR	
	(Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR	
Houston (IAH)	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR or	1000-0300
	(GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR	1000-0300
	(Non-advanced NAV only) LAL J73 SZW J2 CEW	
	J50 AEX DAS-STAR	1000-0300
Jacksonville (CRG)	ORL J53(all others) CYY CYY-STAR	1030-0300 1030-0300
WIGHT (WIA)	or (/E, /G, /R, /J, /L, /Q) CYY DEEDS	1030-0300
	(RNAV)-STAR	1030-0300
Ocala (OCF) Orlando (MCO)	LAL LAL MINEE-STAR or	1030-0300 1030-0300
	DOWNN MINEE-STARor	1030-0300
	LALor	1030-0300
	(Turbojets) ORLor	1030-0300
Tallahaaaaa (TLH)	(Turbojets) DOWNN MINEE-STAR	1030-0300
Tallahassee (TLH) Tampa (TPA)	LAL RSW BRDGE-STARor	1030-0300 1030-0300
	V7 ROGAN J43 PIEor	1030-0300
	(GPS or DME/DME-IRU equipped) DEAKK (RNAV)-STAR	1030-0300
Westbound destinations	SRQ Q100 LEV J86	
	BAGGS Q102 LEV J86or	

Tamainala	Posts	Effective Times
Terminals	Route SRQ 100 REDFN Q105 HRV J58	(UTC)
From PAGE FLD (FMY) only: Cincinnati (CVG)	(RNAV only) LAL CTY J91 VXV JAKIE (RNAV)-STAR	
Cleveland Metro (CLE)	(all others) LAL CTY J91 ATL VXV HARDU-STAR LAL CTY J91 HNN TVT KEATN-STAR	
Columbus (CMH)	LAL CTY J91 HNN BREMN-STARLAL CTY J91 VXV J43 FLM DQN MIZAR-STAR	
Detroit Satellites: Ann Arbor (ARB), Willow Run (YIP) Pontiac (PTK), Windsor (CYQG), Young	LAL CTY J91 VXV J43 FLM DQN CRUXX-STAR	
(DET)La Guardia (LGA)	LAL J73 J119 TAY J85 DJB LLEEO-STAR ORL J53 CRG J51 SAV J207 J55 HPW J191 PXT	
Miami (MIA)	(Turbojets-GPS or DME/DME-IRU equipped) CYY	1100-0300
Newark (EWR)	SSCOT (RNAV)-STAR ORL J53 CRG J51 FAK DYLIN-STAR	1100-0400
	(GPS or DME/DME-IRU equipped) ORL J53 CRG J51 FAK PHLBO(RNAV)-STAR	1100-0400
Washington Natl (DCA)	ORL J53 CRG J51 SAV J55 CHS J165 RIC IRONS-STAR	1000-0300
From SW FLORIDA INTL (RSW) only: Atlanta (ATL)	RSW LAL J73 SZW LGC-STAR	1000-0300
Atlanta (ATE)	or (RNAV only) RSW LAL J73 SZW HONIE	
Chicago Midway (MDW)	(RNAV)-STAR (/E/G/R/J/L/Q only) RSW LAL CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR	1000-0300 1000-0300
	or (non-advanced RNAV only) RSW LAL CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT	1000-0300
Chicago O'Hare (ORD)	(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO	1000-0300
	(RNAV)-STAR or (non-advanced RNAV only) LAL CTY J91 ATL	1000-0300
Cleveland (CLE)	CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 KNOX-STARRSW LAL J73 J119 TAY J85 IRQ J85 HVQ J85	1000-0300
Columbus (CMH)	TVT040 KEATN KEATN-STAR	4000 0000
Dallas/Ft. Worth (DFW)	BREMN-STAR	1000-0300
Denver (DEN)	RSW LAL J73 SZW J2 CEW J50 AEX CQY RSW SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR	1000-0300
	or RSW LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR	
Detroit/Wayne (DTW) Detroit Satellites:	JOCKS ORL J53 SPA HNN WEEDA-STAR	
Ann Arbor (ARB), Willow Run (YIP) Pontiac (PTK), Windsor (CYQG), Young (DET)	LAL CTY J91 VXV J43 FLM DQN CRUXX-STAR LAL J73 J119 TAY J85 DJB LLEEO-STAR	
Indianapolis (IND)	RSW LAL CTY J91 ATL J89 IIU DECEE-STAR	
Louisville (SDF)	RSW LAL CTY J91 ATL HCH DARBY-STAR (Turbojets-GPS or DME/DME-IRU equipped) CYY SSCOT (RNAV)-STAR	
Minneapolis (MSP)	RSW LAL CTY J91 ATL J89 BAE EAU-STAR	1000-0300
Pittsburgh (PIT)	RSW LAL CTY J91 ATL GQO VOLLS-STAR	1000-0300
Raleigh-Durham (RDU)	RSW ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR	

Terminals	Route	Effective Times (UTC)
St Louis (STL)	LAL J73 SZW J41 VUZ STL	1100-0300
Washington Dulles (IAD)	RSW ORL J53 CRG J51 SAV J207 RDU FAK COATT-STARor	1000-0300
	(GPS or DME/DME-IRU equipped) RSW ORL J53 CRG J51 SAV J207 RDU FAK BARIN-STAR	1000-0300
Wahington Natl (DCA)	RSW ORL J53 CRG J51 SAV J55 CHS J165 RIC IRONS-STARor	1000-0300
	(GPS or DME/DME-IRU equipped) RSW ORL J53 CRG J51 SAV J55 CHS J165 RIC OJAAY	1000 0000
GREENSBORO (GSO)	(RNAV)-STAR	1000-0300
Chicago Midway (MDW)	PSK HNN FWA GOSHEN-STAR	1100-0300
Chicago O'Hare (ORD)	PSK HVQ APE J178 FWA GOSHEN-STAR (/E/G/R/J/L/Q only) BOTTM FLM HEVAN MZZ	1100-0300
	ROYKO (RNAV)-STAR or	1100-0300
	(non-advanced RNAV only) BOTTM FLM HEVAN	
Cincinnati (LUK)	MZZ MZZ344/33 OXI KNOX-STAR PSK HVO FLM	1100-0300 0700-2300
Detroit/Wayne (DTW)	BOTTM BKW GEMNI-STAR	0700-2300
La Guardia (LGA)	J14 PXT KORRY-STAR	
Louisville (SDF)	VXV J99 GHATS EWO IIU	0700-2300
Newark (EWR)	J14 J51 FAK DYLIN-STARor	
	(GPS or DME/DME-IRU equipped) J14 J51 FAK PHLBO (RNAV)-STAR	
GREER (GSP) Detroit/Wayne (DTW)	SPA HMV HNN WEEDA-STAR	
HUNTSVILLE (HSV)		
Chicago O'Hare (ORD)	MEM FTZ BDF BDF-STAR(RNAV only) BNA IMPEL VHP FWA MIZAR-STAR	0000–2359
	or BNA CCT VHP FWA MIZAR-STAR	
JACKSONVILLE METRO AREA (JAX)		
Baltimore (BWI)	J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR or	1100-0400
	(GPS or DME/DME-IRU equipped) J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR	1100-0400
Charlotte (CLT)	J53 IRQ UNARM-STARor	
	J51 SAV J207 FLO CTF-STARor	
	(Turbojets-GPS or DME/DME-IRU equipped) J51 SAV HUSTN (RNAV)-STAR	
	or (Turbojets-GPS or DME/DME-IRU equipped) J53	
Objects Officer (ODD)	IRQ ADENA (RNAV)—STAR	
Chicago O'Hare (ORD)	(/E/G/R/J/L/Q only) SAV CAE HMV FLM HEVAN MZZ ROYKO (RNAV)-STAR	0000-2359
	(non-advanced RNAV only) SAV CAE HMV FLM	
Datasit Attacas (DTM)	HEVAN MZZ MZZ344/33 OXI KNOX-STAR	0000–2359
Detroit/Wayne (DTW) Houston (HOU)	NOWAY J53 SPA HNN WEEDA-STAR (GPS or DME/DME-IRU equipped) TAY J2 SJI	
	COLUMBIA (RNAV)-STAR	
	(Non-advanced NAV only) TAY J2 CEW J50 AEX	
	DAS-STAR	
Houston (IAH)	(GPS or DME/DME-IRU equipped) TAY J2 SJI WOLDE (RNAV)-STAR	
	or	

Terminals	Route	Effective Times
reminals	(Non-advanced NAV only) TAY J2 CEW J50 AEX	(UTC)
La Guardia (LGA)	DAS-STAR J51 SAV J207 RDU J55 HPW J191 PXT	
Newark (EWR)	KORRY-STARCRG J51 FAK DYLIN-STAR	1100-0400
	or (GPS or DME/DME-IRU equipped) CRG J51 FAK	
Philadelphia (PHL)	PHLBO (RNAV)-STAR J51 SAV J55 CHS J121 SWL SWL034 RADDS	
Tampa (TPA)	VCN-STAR TAY LZARD-STAR	1100-0400
	or (GPS or DME/DME-IRU equipped) TAY DADES	
Washington Dulles (IAD)	(RNAV)-STARSAV CHS J165 J109 FAK COATT-STARor	1100-0400
	(GPS or DME/DME-IRU equipped) SAV J207 RDU	
	FAK BARIN-STAR	1100-0400
Washington Natl (DCA)	J51 SAV J55 CHS J165 RIC IRONS-STAR or	1100-0400
	(GPS or DME/DME-IRU euipped) J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR	1100-0400
KEY WEST METRO AREA (NQX)		
Daytona Beach (DAB)	J41 RSW ORL	1030-0300
Fort Lauderdale (FLL)	(all others) EYW DVALL-STARor	1030-0300
	(/E, /G, /R, /J, /L, /Q) EYW CURSO	
Fort Marrie (DOM)	(RNAV)-STAR	1030-0300
Fort Myers (RSW)	J41 PHK	1030-0300 1030-0300
Miami (MIA)	(all others) EYW DVALL-STAR	1030-0300
	(/E, G, /R, /J, /L, /Q) EYW CURSO (RNAV)-STAR.	1030-0300
Orlando (MCO)	J41 RSW MINEE-STAR	1030-0300
Palm Beach (PBI)	PHK	1030-0300
Sarasota/Bradenton (SRQ)	J41 RSW V7 ROGAN	1030-0300
Tallahassee (TLH)	J41 RSW LALor	1030-0300
Tamas (TDA)	(at or above FL360) J41 RSW TEPEE SZW	1030-0300
Tampa (TPA)	J41 RSW ROGAN BRDGE BRDGE-STAR	1030-0300
	(GPS or DME/DME-IRU equipped) J41 RSW ROGAN DEAKK DEAKK (RNAV)-STAR	1000-0300
Vero Beach (VRB)	PHK	1030-0300
KNOXVILLE (TYS)		
Chicago O'Hare (ORD)	(/E/G/R/J/L/Q only) VXV HEVAN MZZ ROYKO	
	(RNAV)-STARor	0000–2359
	(non-advanced RNAV only) VXV HEVAN MZZ	
Cleveland Metro (CLE)	MZZ344/33 OXI KNOX-STAR	0000–2359
Detroit/Wayne (DTW)	VXV J91 BULEY J91 HNN TVT KEATN-STAR VXV J91 HNN WEEDA-STAR	
La Guardia (LGA)	BKW J42 GVE KORRY-STAR	
LAKELAND METRO AREA (LAL, GIF, BOW, BKV, X16)		
Fort Lauderdale (FLL)	(Jets only-all others) RSW FORTL-STAR	
Key West Intl (EYW)	RSW J41	1030-0300
Miami (MIA)	(Turbojets-GPS or DME/DME-IRU equipped) CYY	
West Palm Beach (PBI)	SSCOT (RNAV)-STAR(Turbojets-GPS or DME/DME-IRU equipped)	
WOSE FAIIII DEAGH (FDI)	WLACE (RANV)-STAR	1030-0300
LEXINGTON (LEX)		
Atlanta (ATL)	(RNAV only) AZQ SOT FLCON (RNAV)-STAR	
Cleveland (CLE)	CVG ABERZ-STAR	

Effective Times (UTC)

Terminals	Route	Times (UTC)
LOUISVILLE METRO AREA (LOU, SDF)		
From BOWMAN FIELD (LOU) only Dallas/Ft Worth (DFW)	PXV J131 LIT BYP	
Phoenix (PHX)	FAM J78 ABQ J18	
	or FAM J78 IRW J74 SJN J18	
From LOUISVILLE INTL (SDF) only		
Atlanta (ATL)	MYS BWG ROME-STAR	
	(RNAV only) MYS BWG RMG ERLIN (RNAV)-STAR	
Cleveland Metro (CLE)	CVG ABERZ-STAR	
Houston (HOU)	(GPS or DME/DME-IRU equipped) SWB ROKIT (RNAV)-STAR	
	Or	
Houston (IAH)	(Non-advanced NAV only) SWB DAS-STAR (Turbojets-GPS or DME/DME-IRU equipped) SWB	
nouston (viii)	TXMEX (RNAV)-STAR	
	(Non-advanced NAV only) SWB DAS-STAR	
MEMPHIS (MEM)	7,	
Baltimore (BWI)	J42 BKW J147 CSN OTT-STAR	
	(GPS or DME/DME-IRU equipped) J42 BKW J147	
Boca Raton (BCT)	CSN RAVNN (RNAV)-STAR(GPS or DME/DME-IRU equipped) MGM SZW	
Book Naton (BoT)	PRRIE (RNAV)–STAR	
Boston (BOS)	J42 BNA J46 VXV SPA SPA100 J209 RDU J207 FKN J79 JFK ORW-STAR	
	0f	
	J118 SPA SPA100 J209 RDU J207 FKN J79 JFK ORW-STAR	
Cincinnati (CVG)	(RNAV only) J29 PXV SARGO (RNAV)-STAR	
	(all others) J29 PXV MOSEY–STAR	
Cleveland (CLE)	PXV ABERZ-STAR	
Denver (DEN) Detroit/Wayne (DTW)	RZC PER GCK J154 RYLIE DANDD-STAR J29 PXV VHP FWA MIZAR-STAR	
Houston (HOU)	(DME/DME-IRU or GPS-equipped) LIT J180 SWB	
	ROKIT (RNAV)-STAR	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR	
Houston (IAH)	(Turbojets-DME/DME-IRU or GPS-equipped) LIT J180 SWB TXMEX (RNAV)-STAR	
	Or	
	(Non-advanced NAV only) LIT J180 SWB DAS-STAR	
Kennedy (JFK)	J118 SPA SPA100 J209 ORF J121 SIE	
La Cuardia (LCA)	CAMRN-STAR	
La Guardia (LGA) Louisville (SDF)	J42 GVE KORRY-STAR BNA BNAO37 BARRY EWO	
,	or	
Minneaudia (MCD)	Q29 SIDAE CHERI CHERI-STAR	1200 0200
Minneapolis (MSP) Newark (EWR)	J35 STL IOW ALO KASPR-STAR J42 GVE DYLIN-STAR	1300-0300
	or	
	(GPS or DME/DME-IRU equipped) J42 GVE	
Orlando (ORL/MCO)	PHLBO (RNAV)-STAR MGM SZW J43 PIE LAL	1100-0400
G. G	or	1100 0.00
	GPS or DME/DME-IRU equipped) MGM SZW J43	
	PIE COSTR (RNAV)-STAR	1100-0400
	J41 MGM S2W J43 PIE LAL	
Philadelphia (PHL)	J42 GVE DPNT-STAR	
Pittsburgh (PIT)	J29 PXV IIU HNN WISKE-STAR	

Terminals	Route	Effective Times (UTC)
Sarasota/Bradenton (SRQ)	MGM SZW CLAMP-STARMGM SZW DARBS-STAR	1100-0400
Tampa (TPA)	or (GPS or DME/DME-IRU equipped) MEM SZW	1100-0400
	FOXX (RNAV)-STAR	1100-0400
Washington Dulles (IAD)	J42 BKW ROYIL-STAR	1100-1830
	PXV IIU J8 HVQ SHNON (RNAV)-STAR or	1830–2230
	J42 BKW SHNON (RNAV)-STAR	2230-0300
Washington Natl (DCA)	PXV IIU J8 HVQ ROYIL-STAR	1830–2230
West Palm Beach (PBI)	ELDEE (RNAV)-STAR MGM SZW WLACE (RNAV)-STAR J42 BNA J46 VXV SPA SPA100 J209 RDU J207	
MIAMI METRO AREA	FKN J79 JFK DPK DPK-STAR	
(MIA, HWO, OPF, TMB, HST, X51)		
Albany (ALB)	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE	
Atlanta (ATL)	V487 CANAN V130 J81 CHESN SINCA-STAR	1000-0300
Baltimore (BWI)	or (RNAV only) J81 CHESN CANUK (RNAV)-STAR J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC	1000-0300
	OTT-STAR	1000-0300
	(Water-Turbojets) VALLY PERMT AR16 ILM J40 RIC OTT-STAR	1000-0300
	or (GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC RAVNN	
	(RNAV)-STARor	1000-0300
	(GPS or DME/DME-IRU equipped) VALLEY PERMT AR16 ILM J40 RIC RAVNN (RNAV)-STAR	1000-0300
Bedford (BED)	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR	1000-0300
	or (Water–Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR	
Beverly (BVY)	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD	
	GRAYM-STARor	
	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR	
Boston (BOS)	J53 CRG J51 SAV J55 CHS J79 JFK ORW-STAR or	1000-0300
	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK ORW-STAR	
Chicago Midway (MDW)	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STARor	1000-0300
	(non-advanced RNAV only) CTY J91 ATL J89 IIU	4000 0005
Chicago O'Hare (ORD)	OKK V285 CLEFT OXI CGT (/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO	1000-0300
	(RNAV)-STAR	1000-0300

Terminals	Route	Effective Times (UTC)
	or	
	(non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ	4000 0000
Cincinnati (CVG)	MZZ344/33 OXI KNOX-STAR (RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR or	1000-0300
Columbus (CMH)	(all others) CTY J91 VXV HARDU-STAR J81 IRQ J53 SPA J85 HVQ HNN BREMN-STAR	1000-0300
Cross City (CTY)	J616 SRQ Q100 REDFN Q105 HRV J58 AEX CQY .	1030-0300 1000-0300
Danbury (DXR)	LAL J73 SZW J2 CEW J50 AEX CQY(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR	1000-0300
Daytona Beach (DAB) Denver (DEN)	J53 HEDLY MLB V3 or MLB V3 LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR	1030-0300
Detroit/Wayne (DTW) Detroit Satellites:	J53 SPA HNN WEEDA-STAR	
Ann Arbor (ARB), Detroit (DET), Pontiac (PTK), Windsor (CYQG)	J81 IRQ J99 VXV J43 FLM DQN CRUXX-STAR	
Willow Run (YIP)	104 IDO 105 DID I I FEO CTAD	
Ann Arbor (ARB)	J81 IRQ J85 DJB LLEEO-STAR	1020 0200
Fort Pierce (FPR) Farmingdale (FRG)	J53 HEDLY or FPR (Water–Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN–STAR	1030-0300
Gainesville (GNV)	Direct	1030-0300
Hampton (HTO)	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121	
Hartford (HFD)	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1	
Houston Intenti (IAH)	(DME/DME-IRU or GPS-equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR or (Non-advanced NAV only) LAL J73 SZW J2 CEW	1000-0300
	J50 AEX DAS-STARor	1000-0300
Houston Hobby (HOU)	J616 SRQ Q100 LEV WOLDE (RNAV)-STAR (DME/DME-IRU or GPS-equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) J616 SRQ Q100 LEV COLUMBIA (RNAV)-STAR	1000-0300
	or (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR	1000-0300
Indianapolis (IND)	LAL CTY J91 ATL J89 IIU DECEE-STAR	1000-0300
Islip (ISP)	(Water–Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SARDI CCC	1000-0300
Jacksonville (JAX)	J53	1030-0300
Kennedy (JFK)	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR	1000-0300
	UI 153 ODG 154 SAV 155 OHG 1404 CIT	
	J53 CRG J51 SAV J55 CHS J121 SIE	4000 0000
La Guardia (LGA)	CAMRN-STAR (Water) VALLY PERMT AR16 ILM J40 TYI HPW J191 PXT KORRY-STAR	1000-0300
	or J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT	1000 0000
Lawrence (LWM)	KORRY-STAR(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR	1000-0300
	or	

Terminals	Route	Effective Times
reminals	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW	(UTC)
Louisville (SDF)	GRAYM-STAR	1000-0300
Melbourne (MLB) Minneapolis (MSP) Montreal (CYUL)	J53 HEDLY or DRCT CTY J91 ATL J89 BAE EAU-STAR VALLY PERMT AR16 ILM KEMPR SBY J79 JFK J37	1030-0300 1000-0300
Nantucket (ACK)	ALB J6 PLB ABCOT-STAR	4000 0200
Nashville (BNA) Newark (EWR)	CTY J91 ATL GQO VOLLS-STAR (Water) VALLY PERMT AR16 ILM J109 FAK DYLIN-STAR or J53 CRG J51 SAV J207 FLO J55 J51 FAK	1000-0300
	DYLIN-STAR	1000-0300
	(RNAV)-STAR	1000-0300
Newburgh (SWF)	(GPS or DME/DME-IRU equipped) VALLY PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR (Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR	1000-0300
New Haven (HVN)	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED	
New London/Groton (GON) New Orleans (MSY)	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 HTO	1000-0300
Ocala (OCF)	or (Water) J616 SRQ Q100 REDFN Q105 HRV J73 LAL or DRCT	1000-0300 1030-0300 1030-0300
Overwater Routes to the Northeast	or (PHK GOOFY-STAR(Water-Turbojets) VALLY PERMT AR16 ILMor	
Overwater Routes to the Northwest	(Water-Turbojets) VALLY WOLFO AR18 DIW J616 SRQ Q100 LEV J86	1030-0300
Philadelphia (PHL)	J616 SRQ Q100 REDFN Q105 HRV J58 J53 CRG J51 SAV J55 CHS J121 SWL SWL034 RADDS VCN-STAR	1030-0300 1000-0300
	or (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL RADDS VCN-STAR	1000-0300
Pittsburgh (PIT) Poughkeepsie (POU)	J53 CRG J51 CAE PSK EKN IHD NESTO-STAR (Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR	1000-0300
Providence (PVD)	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO JORDAN (RNAV)-STAR	
Raleigh-Durham (RDU)	(Water-Turbojets) VALLY PERMT AR16 ILM BRADE-STAR	1000-0300
St Louis (STL)	J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR WINCO CTY J151 VISQA QBALL-STAR or (/E, /G, /R, /J, /L, /Q) WINCO KPASA Q110	1000-0300 1000-0300
Sarasota/Bradenton (SRQ)	FEONA VUZ J151 VISQA QBALL-STAR	1030-0300

Terminals	Route	Effective Times (UTC)
Tallahassee (TLH)	J73	(0.0)
Tampa (TPA)	or LAL J43 BRDGE BRDGE–STAR or	1030-0300 1030-0300
Toronto (CYYZ)	(GPS or DME/DME-IRU equipped) J43 DEAKK DEAKK (RNAV)-STAR	1030-0300
Vero Beach (VRB)	BUF YOUTH-STAR DRCT	1030-0300
Washington Dulles (IAD)	J53 HEDLY J53 CRG J51 SAV J207 RDU FAK COATT-STAR or	1000-0300
	(GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J207 RDU FAK BARIN-STAR or (Water) VALLEY PERMT AR16 ILM J109 FAK	1000-0300
	COATT-STARor	1000-0300
Washington Natl (DCA)	(Water-GPS or DME/DME-IRU equipped) VALLY PERMT AR16 ILM J109 FAK BARIN-STAR (Turbojets) J53 CRG J51 SAV J55 CHS J165 RIC	1000-0300
	IRONS-STARor	1000-0300
	(Water-Turbojets) VALLY PERMT AR16 ILM J40 RIC IRONS-STAR	1000-0300
	(GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR or	1000-0300
	(Water-Turbojets-GPS or DME/DME-IRU equipped) VALLY PERMT ILM J40 RIC OJAAY (RNAV)-STAR	1000-0300
Westhampton (FOK)	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 HTO	
White Plains (HPN)	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR or	
	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR	
Wilmington (ILM)	(Water-Turbojets) VALLY PERMT AR16 (Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR	
Worcester (ORH)	(Water–Turbojets) VALLY PERMT AR16 ILM KEMPR SYB J79 JFK DPK MAD HFD	
MOBILE (MOB)		
Houston (HOU)	(DME/DME-IRU or GPS-equipped) SJI COLUMBIA (RNAV)-STARor	
Houston (IAH)	(Non-advanced NAV only) SJI J50 AEX DAS-STAR. (DME/DME-IRU or GPS-equipped) SJI WOLDE (RNAV)-STAR or	
	(Non-advanced NAV only) SJI J50 AEX DAS-STAR.	
MYRTLE BEACH (MYR) Detroit/ Wayne (DTW)	BKW GEMNI-STAR	
NASHVILLE Baltimore (BWI)	J42 BKW J147 CSN OTT-STAR	
Deve Deter (DOT)	(GPS or DME/DME-IRU equipped) J42 BKW J147 CSN OTT-STAR	
Boca Raton (BCT)	(GPS or DME/DME-IRU equipped) MGM SZW PRRIE (RNAV)-STAR	

Terminals	Route	Times (UTC)
Boston (BOS)	J46 VXV SPA SPA100 J209 RDU J207 FKN J79 JFK ORW-STAR	(0.0)
Chicago/Midway (MDW)	(/E/G/R/J/L/Q only) IIU OKK FISSK	
, , , , , , , , , , , , , , , , , , , ,	(RNAV)-STAR	0000-2359
	(non-advanced RNAV only) IIU OKK V285 CLEFT OXI CGT	0000-2359
Chicago O'Hare (ORD)	(/E/G/R/J/L/Q only) IIU HEVAN MZZ ROYKO (RNAV)-STARor	0000-2359
	(non-advanced RNAV only) IIU HEVAN MZZ MZZ344/33 OXI KNOX-STAR	0000–2359
	IIU MZZ OXI KNOX-STAR	
Cincinnati (CVG)	BWG V49 ABB V47 CVG	
Cleveland (CLE) Columbus (CMH)	IIU ABERZ-STAR LVT V493 YRK YRK035 APE168 NIKLS	
Denver (DEN)	FAM J112 BUM J110 GCK J154 RYLIE	
	DANDD-STAR	
Detroit/Wayne (DTW)	(RNAV only) IMPEL VHP FWA MIZAR-STAR or	
	CCT VHP FWA MIZAR-STAR	
Fort Lauderdale (FLL)	(all others) J39 MGM SZW J41 PIE FORTL-STAR	
Fort Myers (FMY, RSW)	(Turbojets-GPS or DME/DME-IRU equipped) J39 MGM J41 SZW SSCOT (RNAV)-STAR	1100-0300
Houston (HOU)	(GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR	1100-0300
	or	
	(Non-advanced NAV only) LIT J180 SWB DAS-STAR	
Houston (IAH)	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR	
Indianapolis (IND)	J39 IIU DECEE-STAR	
Kennedy (JFK)	J46 VXV SPA SPA100 J209 ORF J121 SIE	
La Occasilla (LOA)	CAMRN-STAR	
La Guardia (LGA) Miami (MIA)	J42 GVE KORRY-STAR (all others) J39 MGM SZW J41 PIE CYY-STAR or	
	(Turbojets-GPS or DME/DME-IRU equipped) J39	
	MGM SZW SSCOT (RNAV)-STAR	
Minneapolis (MSP)	IIU J89 BAE EAU-STAR	
Newark (EWR)	SPA J14 J51 FAK DYLIN-STARor	1100-0400
	(GPS or DME/DME-IRU equipped) SPA J14 J51	1100-0400
Orlando (MCO, ORL)	FAK PHLBO (RNAV)-STAR	1100-0400
	(GPS or DME/DME-IRU equipped) J39 MGM SZW	
	J43 PIE COSTR (RNAV)-STAR	1100-0400
Philadelphia (PHL)	J42 OTT DPNT-STAR	
Pittsburgh (PIT)	IIU HNN WISKE-STAR	
St. Louis (STL)	QBALL-STAR	
Washington Dulles (IAD)	J42 BKW ROYIL-STAR	
	or J42 BKW SHNON (RNAV)–STAR	
Washington Natl (DCA)	J42 BKW WZRRD-STAR	
•	or	
	(GPS or DME/DME-IRU equipped) J42 BKW	
West Dales Deach (DD)	ELDEE (RNAV)—STAR	
West Palm Beach (PBI)	(Turbojets-GPS or DME/DME-IRU equipped) MGM SZW WLACE (RNAV)-STAR	

Terminals	Route	Effective Times (UTC)
Windsor Locks (BDL)	J46 VXV SPA SPA100 J209 RDU J207 FKN J79 JFK DPK DPK-STAR	
ORLANDO METRO AREA (MCO, ORL, ISM, LEE, SFB)		
Baltimore (BWI)	(Water-Turbojets-GPS or DME/DME-IRU equipped) MLB LENDS AR16 ILM J40 RIC	
	or	1100–0400
	(GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR	1100-0400
Detroit/Wayne (DTW)	JAGUAR-DP IRQ J53 SPA HNN WEEDA-STAR VRB	1030-0300
Houston (HOU)	(GPS or DME/DME-IRU equipped) PIE REMIS Q100 LEV COLUMBIA (RNAV)-STAR	1000-0300
	or (GPS or DME/DME-IRU equipped) SZW J2 SJI COLUMBIA (RNAV)-STAR	1000-0300
	or (Non-advanced NAV only) SZW J2 CEW J50 AEX	
Houston (IAH)	DAS-STAR(GPS or DME/DME-IRU equipped) PIE REMIS Q100 LEV WOLDE (RNAV)-STAR	1000-0300
	or (GPS or DME/DME-IRU equipped) SZW J2 SJI WOLDE (RNAV)-STAR	
	(Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR	1000-0300
Key West (EYW) Overwater Routes to the Northeast	RSW J41	1030-0300
Wilmington (ILM)	(Water-Turbojets) MLB ETECK AR18 DIW (Water-Turbojets) MLB LENDS AR16	
From ORLANDO EXECUTIVE (ORL) only Albany (ALB)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487	
Atlanta (ATL)	CANAN V130 J53 CRG DBN SINCA-STAR or	
Baltimore (BWI)	(RNAV only) J53 CRG DBN CANUK RNAV-STAR (Water-Turbojets) MLB LENDS AR16 ILM J40 RIC OTT-STAR	1100-0400
	or J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR	1100-0400
Bedford (BED)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR or	
	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR	
Beverly (BVY)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR or	
	(Water–Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM–STAR	
Bridgeport (BDR)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193	
Charlotte (CLT)	KEYED J53 CRG J51 SAV J207 FLO CTF-STAR or	
	(Turbojets-GPS or DME/DME-IRU equipped) J53 CRG J51 SAV HUSTN (RNAV)-STAR	

		Effective
Tamainala	Dt-	Times
Terminals	Route	(UTC)
	or (all others) J53 CRG J45 ATL J43 VXV	
	HARDU-STAR	
Cleveland (CLE)	J53 SPA J85 TVT040 KEATN KEATN-STAR	
Columbus (CMH)	J53 SPA J85 HVQ HNN BREMN-STAR	
Dallas/Ft. Worth (DFW)	PIE REMIS Q100 REDFN Q105 HRV J58 AEX CQY.	
Danbury (DXR)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 SIE V139 RICED	
	RICED-STAR	
Denver (DEN)	CTY SZW J41 MEM RZC PER GCK J154 RYLIE	
	DANDD-STAR	
Detroit/Wayne (DTW)	VXV J91 HNN WEEDA-STAR	
Detroit Satellites:		
Detroit (DET), Windsor (CYQG), Pontiac		
(PTK), Willow Run (YIP), Ann Arbor	J53 CRG J45 ATL J91 VXV J43 FLM DQN	
(ARB)	CRUXX-STAR	1100-0400
	or	
	J53 IRQ J85 DJB LLEEO-STAR	
East Hampton (HTO)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 HTO	
Farmingdale (FRG)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 SIE CAMRN-STAR	
Hartford (HFD)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
	SBY J79 JFK DPK MAD V1	
Indianapolis (IND)	J53 CRG J45 ATL J89 IIU DECEE-STAR	
Islip (ISP)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 SARDI CCC	
Kennedy (JFK)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 SIE CAMRN-STAR	0700-0000
	or	
	J53 CRG J51 SAV J55 CHS J121 SIE	
	CAMRN-STAR	
La Guardia (LGA)	(Water-Turbojets) MLB LENDS AR16 ILM J40 TYI	
	HPW J191 PXT KORRY-STAR	1100-0300
	or	
	J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT	
	KORRY-STAR	1100-0300
Lawrence (LWM)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
	SBY J79 JFK DPK MAD HFD GRAYM-STAR	
	or	
	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J174 HTO ORW GRAYM-STAR	
Louisville (SDF)	CTY J91 ATL HCH DARBY-STAR	
Manchester (MHT)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
	SBY J79 JFK ALB EEN	
Minneapolis (MSP)	CTY J91 ATL J89 BAE EAU-STAR	1100-0400
Montreal (CYUL)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
	SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR	
Nantucket (ACK)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J174 HTO V46	
Nashville (BNA)	CTY J91 ATL VOLLS-STAR	1100-0400
Newark (EWR)	(GPS or DME/DME-IRU equipped-WATER) MLB	
	LENDS AR16 ILM J109 FAK PHLB0	
	(RNAV)-STAR	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) J53 CRG J51	
	SAV J207 FLO J55 J51 FAK PHLBO	
	(RNAV)-STAR	1100-0400
Newburgh (SWF)	(Water–Turbojets) MLB LENDS AR16 ILM KEMPR	
	SBY J79 JFK DPK HUDSON-STAR	
New Haven (HVN)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 SIE V139 RICED MAD193	
	KEYED	
New London (GON)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO	
	CEBEE SWL J121 HTO	

		Times
Terminals Philadelphia (PHL)	Route (Water–Turbojets) J53 CRG J55 CHS J121 SWL	(UTC)
rilliaueipilia (riiL)	SWL034 RADDS VCN-STAR	1100-0400
Pittsburgh (PIT) Poughkeepsie (POU)	CRG J51 CAE PSK EKN IHD NESTO-STAR(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	1100-0400
Providence (PVD)	SBY J79 JFK DPK HUDSON-STAR (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR	
Springfield (CEF)	(Water–Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK–STAR	
St. Louis (STL)	CTY SZW J41 VUZ J151 VISQA QBALL-STAR	1100-0400
Toronto (CYYZ)	(Water-Turbojets) MLB LENDS AR16 ILM J109 BUF YOUTH-STAR	
Washington Natl (DCA)	(Water-Turbojets-GPS or DME/DME-IRU equipped) MLB LENDS AR16 ILM J40 RIC OJAAY (RNAV)-STARor	
	(Water-Turbojets) MLB LENDS AR16 ILM J40 RIC IRONS-STAR	
Washington Dulles (IAD)	(Water-GPS or DME/DME-IRU equipped) MLB LENDS AR16 ILM J109 FAK BARLIN -STAR or	
	(Water) MLB LENDS AR16 ILM J109 FAK COATT-STAR	
Westfield (BAF)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR	
Westhampton Beach (FOK)	(Water–Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO	
White Plains (HPN)	(Water–Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO–STAR	
Windsor Locks (BDL)	or (Water-Turboprops) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
Worcester (ORH)	SBY J79 VILLS DPK DPK-STAR(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
From ORI ANDO INTL (MOO) and	SBY J79 JFK DPK MAD HFD	
From ORLANDO INTL (MCO) only Atlanta (ATL)	MCOY-DP AMG SINCA-STAR	1100-0400
Baltimore (BWI)	(RNAV only) JAGUAR-DP DBN CANUK (RNAV)-STAR	1100-0400
	OTT-STARor	1100-0400
	(Water-Turbojets) MLB LENDS AR16 ILM J40 RIC OTT-STAR	
Bedford (BED)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR or	
Beverly (BVY)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR (Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR	
	or (Water–Turbojets) MLB ETECK AR18 DIW WETRO	
Boston (BOS)	CEBEE SWL J174 HTO ORW GRAYM-STAR (Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
	SBY J79 JFK ORW-STARor	1100-0300
Bridgeport (BDR)	MCOY-DP SAV J55 CHS J79 JFK ORW-STAR (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193	1100-0300
Charlotte (CLT)	KEYED MCOY-DP SAV J207 FLO CTF-STAR	

Terminals	Route	Effective Times (UTC)
	Or (Turboiote GPS or DME /DME IPII oquipped)	
Chicago Midway (MDW)	(Turbojets-GPS or DME/DME-IRU equipped) MCOY-DP SAV HUSTN (RNAV)-STAR (/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR	1100-0400
Chicago O'Hare (ORD)	(non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT(/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR	1100-0400
Cilicago o Hare (OND)	HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR	1100-0400
Cincinnati (CVG)	(non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR(RNAV only) MCCOY-DP AMG J45 ATL J43 VXV	1100-0400
	JAKIE (RNAV)-STAR or (all others) MCOY-DP AMG J45 ATL J43 VXV	
	HARDU-STAR	1100-0400
Columbus (CMH)	MCOY-DP IRQ J53 SPA J85 HVQ HNN BREMN-STAR	1100-0400
Danbury (DXR)	(WATER-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED	1100 0 100
Detroit/Wayne (DTW)	RICED-STARJAGUAR-DP IRO J53 SPA HNN WEEDA-STAR	
Detroit Satellites: Detriot (DET), Windsor (CYQG), Pontiac (PTK), Willow Run (YIP), Ann Arbor	·	
(ARB) Fort Myers (FMY, RSW)	JAGUAR-DP IRQ J85 DJB LLEEO-STAR LBV	
Hartford (HFD)	(Water–Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD V1	
Indianapolis (IND)	CTY J91 ATL J89 IIU DECEE-STAR	1100-0400
Islip (ISP)	(Water–Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SARDI CCC	
Kennedy (JFK)	(Water) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR	
La Guardia (LGA)	or MCOY-DP SAV J55 CHS J121 SIE CAMRN-STAR MCOY-DP SAV J207 RDU J55 HPW J191 PXT	
Ed dadraid (Edv)	ENO-STAR	1100-0300
	or (Water-Turbojets) MLB LENDS AR16 ILM J40 TYI HPW J191 PXT ENO-STAR	
Lawrence (LWM)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR	
Louisvilla (SDE)	or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR	1100 0400
Louisville (SDF)	CTY J91 ATL HCH DARBY-STAR	1100-0400
	(/E, /G, /R, /J, /L, /Q) WEBSS BRUTS Q110 FEONA VUZ ALO KASPR-STAR	
Montreal (CYUL)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR	
Nantucket (ACK)	(Water–Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO V46	
Nashville (BNA)	CTY J91 ATL VOLLS-STAR	1100-0400
Newark (EWR)	(Water–Turbojets) MLB LENDS AR16 ILM J109 FAK DYLIN–STAR	
	MCOY-DP SAV J207 FLO J55 J51 FAK DYLIN-STAR	
	or	

Terminals	Route	Effective Times
Terminais	J53 CRG J51 SAV J207 FLO J55 J51 FAK	(UTC)
	DYLIN-STAR	1100-0400
	(Turbojets-WATER) MLB LENDS AR16 ILM J109 FAK DYLIN-STAR or	1100-0400
	(GPS or DME/DME-IRU equipped) MCCOY SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR or	1100-0400
	(GPS or DME/DME-IRU equipped-WATER) MLB LENDS AR16 ILM J109 FAK PHLBO (RNAV)-STAR	1100-0400
Newburgh (SWF)	(Water–Turbojets)–MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON–STAR	1100-0400
New Haven (HVN)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED	
New London (GON)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO	
Philadelphia (PHL)	(Turbojets) MCOY-DP SAV J55 CHS J121 SWL SWL034 RADDS VCN-STAR	1100-0400
Pittsburgh (PIT)	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL RADDS VCN-STAR MCOY-DP SAV J51 CAE PSK EKN IHD NESTO-STAR	1100-0400
Poughkeepsie (POU)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
Providence (PVD)	SBY J79 JFK DPK HUDSON-STAR (Water-Turbojets) MLB ETECK AR18 DIW WETRO	
Springfield (CEF)	CEBEE SWL J174 HTO JORDN (RNAV)-STAR (Water-Turbojets) MLB LENDS AR16 ILM KEMPR	
St. Louis (STL)	SBY J79 VILLS DPK DPK-STAR CTY J151 VISQA QBALL-STAR or	
	(/E, /G, /R, /J, /L, /Q) WEBBS BRUTS Q110 FEONA VUZ J151 VISQA QBALL-STAR	
Toronto (CYYZ)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK CFB J95 BUF YOUTH-STAR	
Washington Dulles (IAD)	MCOY-DP SAV J55 CHS J165 J109 FAK COATT-STAR	1100-0300
Westfield (BAF)	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR	
West Palm Beach (PBI)	(Turbojets-GPS or DME/DME-IRU equipped) DEARY VRB FRWAY (RNAV)-STAR	
PALM BEACH METRO AREA (PBI, BCT, LNA, UTX, SUA)	DEARY VRB TUXXI-STAR	
Albany (ALB)	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487 CANAN V130	
Atlanta (ATL)	(RNAV only) ORL J81 CHESN CANUK (RNAV)-STAR	1100-0300
Baltimore (BWI)	or ORL J81 CHESN SINCA-STAR (Water-Turbojets) A699 PERMT AR16 ILM J40 RIC OTT-STAR	1100-0300
	ORL CRG J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR	1100-0300
	(Water-Turbojets-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J40 RIC RAVNN (RNAV)-STAR or	

Terminals	Route	Effective Times (UTC)
	(GPS or DME/DME-IRU equipped) ORL CRG J51 SAV J55 CHS J79 TYI J40 RIC RAVNN	
	(RNAV)-STAR	1100-0300
Bedford (BED)	(Water-ALT-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR	1100-0300
	or (Water-Turbojets) A699 PERMT AR16 ILM KEMPR	
Beverly (BVY)	SBY J79 JFK DPK MAD HFD GRAYM-STAR (Water-ALT-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR	
	or	
Boston (BOS)	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR (Water-Turbojets) A699 PERMT AR16 KEMPR SBY J79 JFK ORW-STAR	1100 0200
	or	1100-0300
	ORL J53 CRG J51 SAV J55 CHS J79 JFK	
Bridgeport (BDR)	ORW-STAR (Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193	1100-0400
Charlotte (CLT)	KEYED ORL J53 CRG J51 SAV J207 FLO CTF-STAR	
	or (Turbojets-GPS or DME/DME IRU equipped) ORL	
	J53 CRG J51 SAV HUSTN (RNAV)-STAR	
Chicago Midway (MDW)	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK	
	FISSK (RNAV)-STARor	1100-0300
	(non-advanced RNAV only) CTY J91 ATL J89 IIU	
Objects O'lless (ODD)	OKK V285 CLEFT OXI CGT	1100-0400
Chicago O'Hare (ORD)	(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR	1100-0300
	or	1100 0000
	(non-advanced RNAV only) LAL CTY J91 ATL	
	CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR	1100-0300
Cincinnati (CVG)	(All Others) CTY J91 VXV HARDU-STAR	1100-0300
	or (RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR	
Cleveland (CLE)	ORL J53 SPA J85 TVTO40 KEATN KEATN-STAR ORL J81 IRQ J53 SPA J85 HVQ HNN	1100-0300
	BREMN-STAR	1100-0300
Cross City (CTY) Dallas/Ft Worth (DFW)	LALSRQ Q100 REDFN Q105 HRV J58 AEX CQY	1030-0300
Danbury (DXR)	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR	
Daytona Beach (DAB)	MLB	1030-0300
Denver (DEN)	SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR	
	CTY SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR	
Detroit/Wayne (DTW)	ORL J53 SPA HNN WEEDA-STAR	
Dixon (DIW)	(Water-Turbojets) WOLFO AR18(Water Turbojets) A699 PAMIT AR18 DIW WETPO	
East Hampton (HTO)	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO	
Farmingdale (FRG)	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR	4000
Fort Myers (RSW)	RSW(Water-Turbojets) A699 RAMJT AR18 DIW WETRO	1030-0300
	CEBEE SWL J121 HTO	

Terminals	Pouto	Times (UTC)
Hartford (HFD)	Route (Water–Turbojets) A699 PERMT AR16 ILM KEMPR	(010)
	SBY J79 JFK DPK MAD V1	
Houston (HOU)	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV	1000 0200
	COLUMBIA (RNAV)-STARor	1000-0300
	(GPS or DME/DME-IRU equipped) LAL J73 SZW	
	J2 SJI COLUMBIA (RNAV)-STAR	1000-0300
	Or (Non-advanced NAV only) LAL 172 S7W 12 CEW	
	(Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR	1000-0300
Houston (IAH)	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV	
	WOLDE (RNAV)-STAR	1000-0300
	Or (CDS or DME /DME IBIL oquipped) LAL 172 S7W	
	(GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR	1000-0300
	or	1000 0000
	(Non-advanced NAV only) LAL J73 SZW J2 CEW	
Indianandia (IMID)	J50 AEX DAS-STAR	1000-0300
Indianapolis (IND)Islip (ISP)	CTY J91 ATL J89 IIU DECEE-STAR(Water-Turbojets) A699 RAMJT AR18 DIW WETRO	1100-0300
ionp (ion)	CEBEE SWL J121 SARDI CCC	
Jacksonville (JAX)	ORL J53	1030-0300
Kennedy (JFK)	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO	
	CEBEE J121 SIE CAMRN-STAR	1100-0300
	ORL J53 CRG J51 SAV J55 CHS J121 SIE	
	CAMRN-STAR	1000-0300
La Guardia (LGA)	(Water-Turbojets) A699 PERMT AR16 ILM J40 TYI	
	HPW J191 PXT KORRY-STAR	
	ORL J53 CRG J51 SAV J207 RDU J55 HPW J191	
	PXT KORRY-STAR	1100-0400
Lawrence (LWM)	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR	
	or (Water-ALT-Turbojets) A699 RAMJT AR18 DIW	
	WETRO CEBEE SWL J174 HTO ORW	
	GRAYM-STAR	
Louisville (LOU)	CTY J91 ATL HCH DARBY-STAR	1100-0300
Manchester (MHT)	(Water–Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN	
Minneapolis (MSP)	CTY J91 ATL J89 BAE EAU-STAR	1100-0300
Montreal (CYUL)	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR	
	SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR	
Nashville (BNA) Nantucket (ACK)	CTY J91 ATL GQO VOLLS-STAR(Water-Turbojets) A699 RAMJT AR18 DIW WETRO	1100-0300
Nantuoket (Aori)	CEBEE SWL J174 HTO V46	
Newark (EWR)	(Water-GPS or DME/DME-IRU equipped) A699	
	PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR	
	or	
	ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK	
	DYLIN-STAR	1100-0300
	or (WATER) A699 PERMT AR16 ILM J109 FAK	
	DYLIN-STAR	
	or	
	(GPS or DME/DME-IRU equipped) ORL J53 CRG	
	J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR	1100-0300
Newburgh (SWF)	(Water–Turbojets) A699 PERMT AR16 ILM KEMPR	1100 0000
- ' '	SBY J79 JFK DPK HUDSON-STAR	
New Haven (HVN)	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO	
	CEBEE SWL J121 SIE V139 RICED MAD193 KEYED	
Ocala (OCF)	LAL	1030-0300

Terminals	Route	Effective Times (UTC)
Orlando (MCO)	BAIRN GOOFY-STAR	1030-0300
Overwater Routes to the Northeast	(Water) A699 PERMT AR16 ILM or WOLFO AR18 DIW	1030-0300
Philadelphia (PHL)	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL RADDS VCN-STAR or	
	ORL J53 CRG J51 SAV J55 CHS J121 SWL	1100 0200
Pittsburgh (PIT)	SWL034 RADDS VCN-STAR ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR	1100-0300
Poughkeepsie (POU)	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR	
Providence (PVD)	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR	
Raleigh/Durham (RDU)	(Water-Turbojets) A699 PERMT AR16 ILM BRADE-STAR	
St. Louis (STL)	ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR TBIRD CTY J151 VISQA QBALL-STAR or	1100-0400
Springfield (CEF)	(/E,/G,/R,/J,/L,/O) TBIRD KPASA Q110 FEONA VUZ J151 VISQA QBALL—STAR (Water-Turbojets) A699 PERMT AR16 ILM KEMPR	
Tallahassee (TLH)	SBY J79 VILLS DPK DPK-STARLAL	1030-0300
Tampa (TPA)	LBV BRDGE-STAR	1030-0300
	BRDGE BRDGE-STAR	1030-0300
Toronto (CVV7)	(GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STARor (GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR	1000-0300
Toronto (CYYZ)	(Water–Turbojets) A699 PERMT AR16 ILM J109 BUF YOUTH–STAR	
Washington Dulles (IAD)	(Water-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J109 FAK BARIN-STAR or	
	(Water) A699 PERMT AR16 ILM J109 FAK COATT-STAR	
	or (GPS or DME/DME-IRU equipped) ORL J53 CRG J51 SAV J207 RDU FAK BARIN-STAR	
Washington Netl (DCA)	ORL J53 CRG J51 SAV J207 RDU FAK COATT-STAR	
Washington Natl (DCA)	(Water) A699 PERMT AR16 ILM J40 RIC IRONS-STARor	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J40 RIC OJAAY (RNAV)-STAR	
Westfield (BAF)	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR	
Westhampton Beach (FOK)	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO	
White Plains (HPN)	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR or	
	(Water-Turboprops) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED	
Wilmington (ILM)	RICED-STAR(Water-Turbojets) A699 PERMT AR16	

Terminals	Route	Effective Times (UTC)
Windsor Locks (BDL)	(Water-Turbojets) PERMT A699 AR16 ILM KEMPR	(010)
Worcester (ORH)	SBY J179 VILLS DPK DPK-STAR (Water-Turbojets) A699 PERMT AR16 ILM KEMPR	
	SBY J79 JFK DPK MAD HFD	
PENSACOLA (PNS) Chicago O'Hare (ORD)	(/E/G/R/J/L/Q only) MGM RESPE GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR	0000–2359
	or (non-advanced RNAV only) MGM RESPE GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR	0000-2359
Houston (HOU)	(GPS or DME/DME-IRU equipped) ROMMY HRV COLUMBIA (RNAV)-STAR	1000-0300
	or	
Houston (IAH)	(Non-advanced NAV only) SJI AEX DAS-STAR (GPS or DME/DME-IRU equipped) ROMMY HRV	1000-0300
	WOLDE (RNAV)-STARor	1000-0300
	(Non-advanced NAV only) SJI AEX DAS-STAR	1000-0300
Atlanta (ATL)	(if unable FL370 by CVIKK) JOSES A315 ZIN FLL ORL CRG SINCA-STAR	
	ALBBE A636 ZIN FLL ORL CRG CANUK (RNAV)-STAR	
	or (if unable FL370 by CVIKK) ALBBE A636 ZIN FLL ORL CRG SINCA-STAR	
	or (if unable FL370 by CVIKK) JOSES A315 ZIN FLL	
Kennedy (JFK)	ORL CRG CANUK (RNAV)-STAR BOTES G444 GTK M594 CERDA LUCTI L454 OWENZ CAMRN	
	or BOTES G444 GTK M594 CERDA L453 AZEZU	
	BERGH L454 OWENZ CAMRN	
	BOTES G444 GTK L452 OXANA AR8 ECG ORF	
	J121 SIE CAMRN-STARor	
	JOSES A315 ZIN A756 DUKKY A555 ZQA AR3	
	PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR	
Newark (EWR)	ALBBE M594 CERDA LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO	
	or ALBBE M594 GTK L452 OXANA AR8 ECG FAK DYLIN-STAR	
	ALBBE M594 GTK L452 OXANA AR8 ECG FAK PHLBO (RNAV)-STAR	
RALEIGH-DURHAM (RDU)	, ,	
Albany (ALB)	TYI J79 SBY J79 JOANI LGA LGA055 V487 V130 PACKK-DP AZELL CAE J4 IRQ SINCA-STAR	1100-0400 1100-0400
Addition (ATE)	or (RNAV only) PACKK-DP AZELL CAE J4 IRQ CANUK	1100-0400
Poston (POS)	RNAV-STAR	1100-0400
Boston (BOS) Chicago Midway (MDW) Chicago O'Hare (ORD)	TYI J79 JFK ORW-STAR PACKK-DP AZELL PSK HVQ FWA GOSHEN-STAR (/E/G/R/J/L/Q only) PACKK-DP AZELL HMV FLM	1100-0400
	HEVAN MZZ ROYKO (RNAV)-STAR	1100-0400
	or (non-advanced RNAV only) PACKK-DP AZELL HMV FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR .	1100-0400

Terminals	Route	Times (UTC)
Cincinnati (CVG)	(RNAV only) HMV JAKIE (RNAV)-STAR	(/
Columbia (CAE)	(all others) HMV HARDU-STAR	1100-0400 1100-0400
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB BAHAA AR21 CRANS FISEL (RNAV)-STAR or (Turbojets) TARL-DP CHS J79 OMN GISSH-STAR .	
	or (Water-Turbojets) TARL-DP CLB BAHAA AR21 CRANS HIILL FATHR GISSH-STAR	
	or (Turboprops) TARL-DP CHS J79 OMN MLB BLUFI-STAR	
	or (Water-Turboprops-GPS or DME/DME-IRU equipped) TARL-DP CLB BAHAA AR21 CRANS FISEL (RNAV)-STAR	
Houston (HOU)	or (Water-Turboprops) TARL-DP CLB BAHAA AR21 CRANS HIILL FATHR GISSH-STAR(GPS or DME/DME-IRU equipped) VUZ JAN AEX ROKIT (RNAV)-STAR	
Houston (IAH)	(Non-advanced NAV only) VUZ JAN AEX DAS-STAR (Turbojets-GPS or DME/DME-IRU equipped) VUZ JAN AEX TXMEX (RNAV)-STAR	
Kennedy (JFK) La Guardia (LGA) Miami (MIA)	or (Non-advanced NAV only) VUZ JAN AEX DAS-STAR	1100-0400
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB SEELO AR22 JORAY HILEY (RNAV)-STAR or (Turbojets) TARL-DP CHS J79 OMN ANNEY-STAR.	
	or (Water-Turbojets) TARL-DP CLB SEELO AR22 JORAY OSOGY ENVOY YOSSI MILSY BOYUR HILEY KAINS	
Newark (EWR)	(Turboprops) TARL-DP CHS J79 OMN ANNEY-STAR LVL FAK DYLIN-STAR or	1100-0300
Newburgh (SWF)Orlando (MCO)	(GPS or DME/DME-IRU equipped) LVL FAK PHLBO (RNAV)-STAR TYI J79 JFK BDR V91 STUBY (Turbojets) TARL-DP CHS J79 OMN BITHO-STAR	1100-0300 1100-0300 1100-0400
Orlando (ORL)	or (GPS or DME/DME-IRU equipped) TARHEEL-DP CHS J79 OMN CWRLD (RNAV)-STAR (Turbojets) TARL-DP CHS J79 OMN CORLL-STAR. (Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CHS J79 OMN FRWAY (RNAV)-STAR	1100–0400 1100–0400

Terminals	Route	Effective Times (UTC)
	Or (Turboiote) TARL DR CHS 170 OMN THYYL STAR	
	(Turbojets) TARL-DP CHS J79 OMN TUXXI-STAR or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB SEELO AR19 AYBID CAYSL (RNAV)-STAR	
	or (Water–Turbojets) TARL–DP CLB SEELO AR19	
Philadelphia (PHL)	AYBID MIMMI NEUBE SWOMP SANZZ CAYSL V3 FAK DPNT-STAR	1100-0400 1100-0400
Pittsburgh (PIT)	PACK-DP ROA EKN IHD NESTO-STAR	1100-0400
Sarasota (SRQ)	FAY-DP FAY CAE J75 TAY J85 GNV LAL TARL-DP CHS	1100-0400 1100-0400
Tampa (TPA)	FAY-DP FAY CAE J75 TAY LZARD-STARor	1100-0400
	(GPS or DME/DME-IRU equipped) FAY-DP FAY CAE J75 TAY DADES (RNAV)-STAR	1100-0400
Windsor Locks (BDL)	TYI J79 SBY J79 JFK DPK-STAR	1100-0400
SAN JUAN (TJSJ) Atlanta (ATL)	HARDE A555 ZQA FLL ORL CRG CANUK (RNAV)-STAR	
	or HARDE A555 ZQA FLL ORL CRG SINCA-STAR	
	CONCH R507	
Atlantic City (ACY)	ELMUC L451 LETON L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL J121 SIE	
Baltimore (BWI)	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC NOTTINGHAM-STAR	
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8	
	ECG RIC RAVNN (RNAV)-STAR	
	or ELMUC L451 OLDEY AR3 CLB ILM J40 RIC NOTTINGHAM-STAR	
	OF	
	ELMUC L451 OLDEY AR3 CLB ILM J40 RIC RAVNN (RNAV)-STAR	
Bedford (BED)	ELMUC L454 LUCTI OWENZ HTO ORW GRAYM-STAR	
	or ELMUC L451 CERDA L453 AZEZU BERGH OWENZ	
	HTO ORW GRAYM-STAR	
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8	
	ECG DIW WETRO CEBEE SWL J174 HTO ORW	
	GRAYM-STAR	
	ELMUC L451 LETON L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW	
Charlotte (CLT)	GRAYM-STAR ELMUC L451 OLDEY CHS CHESTERFIELD-STAR or	
Cincinnati (CVG)	ELMUC L451 OLDEY CHS HUSTN (RNAV)-STAR	
Circiniau (CVG)	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG VXV JAKIE (RNAV)-STAR	
	ELMUC L451 OLDEY METTA CHS SPA CAE VXV	
Cleveland (CLE)	JAKIE (RNAV)-STAR ELMUC L451 CERDA LNHOM L452 OXANA AR8	
	ECG HVQ TVT KEATN-STAR	
	ELMUC L451 OLDEY METTA CHS CAE HVQ TVT	
Dayton (DAY)	KEATN-STAR ELMUC L451 CERDA LNHOM L452 OXANA AR8	
	ECG VXV J43 FLM KEKEE-STAR	

Terminals	Route
	ELMUC L451 OLDEY METTA CHS CAE VXV J43 FLM KEKEE-STAR
Detroit (DTW)	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HNN WEEDA-STAR
	or ELMUC L451 OLDEY METTA CHS SPA HNN
Indianapolis (IND)	WEEDA-STAR ELMUC L451 CERDA LNHOM L452 OXANA AR8
	or ELMUC L451 OLDEY METTA CHS SPA CAE VXV
Kennedy (JFK)	J89 IIU V51 DECEE DECEE-STAR ELMUC L454 LUCTI L454 OWENZ CAMRN
	or ELMUC L453 LAMER L453 AZEZU BERGH L454
	OWENZ CAMRN or ELMUC L451 OLDEY AR3 PANAL DIW WETRO
	CEBEE SWL J121 SIE CAMRN-STAR
Louisville (SDF)	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HCH DARBY-STAR
	or ELMUC L451 OLDEY METTA CHS SPA HCH DARBY-STAR
Newark (EWR)	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK DYLIN-STAR
	or
	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK PHLBO (RNAV)-STAR
	ELMUC L454 LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO
	ELMUC L451 CERDA L453 AZEZU BERGH L454
Ottawa (CYOW)	OWENZ CYN GXU RBV V249 METRO ELMUC L454 LUCTI L454 JFK SYR J599
	or ELMUC L451 CERDA L453 AZEZU BERGH L454 JFK SYR J599
	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SYR J599
	ELMUC L451 OLDEY AR3 CLB ILM SYR J599
Providence (PVD)	ELMUC L454 LUCTI L454 BERGH OWENZ HTO JORDN
	or ELMUC L451 CERDA L453 AZEZU BERGH OWENZ
	HTO JORDN
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SWL J174 HTO JORDN
	or ELMUC L451 OLDEY AR3 PANAL DIW SWL J174
Quebec (CYQB)	HTO JORDN ELMUC L454 LUCTI L454 JFK PLB J560 or
	ELMUC L451 CERDA L453 AZEZU BERGH L454 JFK PLB J560
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8
	ECG ORF SBY J209 VILLS SAX J6 PLB J560 or
	ELMUC L451 OLDEY AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560

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Terminals	Route
Raleigh-Durham (RDU) Teterboro (TEB)	ELMUC L451 OLDEY ILM BRADE-STAR ELMUC L451 CERDA LNHOM L452 OXANA AR8
Tetelbolo (TEB)	ECG FAK JAIKE (RNAV)-STAR
	or ELMUC L451 CERDA L453 AZEZU BERGH L454
	OWENZ
	ELMUC L454 LUCTI L454 OWENZ
	or ELMUC L451 OLDEY AR3 CLB ILM J109 FAK
Washington (DCA)	JAIKE (RNAV)-STAR ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC IRONS-STAR
	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC OJAAY (RNAV)-STAR
	or ELMUC L451 OLDEY AR3 CLB ILM J40 RIC
	IRONS-STAR
	or ELMUC L451 OLDEY AR3 CLB ILM J40 RIC OJAAY
	(RNAV)-STAR
Washington (IAD)	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK BARIN (RNAV)-STAR
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8
	ECG FAK COATT-STAR
	or ELMUC L451 OLDEY AR3 CLB ILM J109 FAK
	BARIN (RNAV)-STAR
	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK
White Plains (HPN)	COATT-STAR ELMUC L454 LUCTI L454 OWENZ
	or ELMUC L451 CERDA L453 AZEZU BERGH L454
	OWENZ
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8
	ECG ORF J121 SIE BOUNO-STAR
	or ELMUC L451 OLDEY ECG ORF J121 SIE
	BOUNO-STAR
Winsor Locks (BDL)	ELMUC L454 LUCTI L454 JFK DBK DEER PARK-STAR
	or
	ELMUC L451 LETON L451 OLDEY AR3 CLB ILM KEMPR SBY J79 JFK DPK DEER PARK-STAR
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8
	ECG SBY J79 JFK DPK DEER PARK-STAR
Winnipeg (CYWG)	ELMUC L451 CERDA LNHOM L452 OXANA AR8
	ecg IIU J99 BAE MSP
	ELMUC L451 OLDEY METTA CHS VXV J89 IIU J99
SANTO DOMINGO (MPSP)	BAE MSP
SANTO DOMINGO (MDSD) Altantic City (ACY)	BESAS L464 CERDA L451 OLDEY AR3 CLB DIW
	WETRO CEBEE SWL J121 SIE
	BESAS L464 CERDA LNHOM L452 OXANA AR8
	ECG SWL J121 SIE
	or JUELE L463 NUCAR AR3 CLB DIW WETRO CEBEE
	SWL J121 SIE

Terminals	Route
Baltimore (BWI)	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC NOTTINGHAM-STAR
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC RAVNN (RNAV)-STAR
	BESAS L464 CERDA L451 OLDEY AR3 CBL ILM J40 RIC NOTTINGHAM-STAR
	or BESAS L464 CERDA L451 OLDEY AR3 CBL ILM J40 RIC RAVNN (RNAV)-STAR
	or JUELE L463 NUCAR AR3 CLB ILM J40 RIC NOTTINGHAM-STAR
	or JUELE L463 NUCAR AR3 CLB ILM J40 RIC RAVNN (RNAV)-STAR
Bangor (BGR)	BESAS L464 CERDA LUCTI L454 BERGH HTO LFV J79
	BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO LFV J79
	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK HTO LFV
Bedford (BED)	BESAS L464 CERDA L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR
	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR
	or BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO ORW GRAYM-STAR
	or BESAS L464 CERDA LUCTI L454 BERGH OWENZ HTO ORW GRAYM-STAR
	or JUELE L463 NUCAR AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR
Boston (BOS)	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM KEMPR SBY J79 JFK NORWICH-STAR
	or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM KEMPR SBY J49 JFK INNDY (RNAV)-STAR
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK INNDY (RNAV)-STAR
	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK NORWICH-STAR
	or BESAS L464 LAMER L453 AZEZU BERGH L454 JFK NORWICH-STAR
	or BESAS L464 LAMER L453 AZEZU BERGH L454 JFK INNDY (RNAV)-STAR
	or JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY J79 JFK NORWICH-STAR
Charlotte (CLT)	BESAS L464 CERDA L451 OLDEY CHS CHESTERFIELD-STAR
	or BESAS L464 CERDA L451 OLDEY CHS HUSTN (RNAV)-STAR

Terminals	Route
	or JUELE L463 NUCAR AR3 OLDEY CHS CHESTERFIELD-STAR
	or JUELE L463 NUCAR AR3 OLDEY CHS HUSTN
Chicago O'Hare (ORD)	(RNAV)-STAR JUELE L463 NUCAR AR3 OLDEY AR4 CH SPA HMV FLM J24 BIGXX ROYKO (RNAV)-STAR
Cincinnati (CVG)	BESAS L464 CERDA L451 OLDEY METTA CHS SPA HMV JAKIE (RNAV)-STAR
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK J24 HVQ HNN JAVIT-STAR
	JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA
Cleveland (CLE)	HMV JAKIE (RNAV)-STAR BESAS L464 CERDA L451 OLDEY METTA CHS
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HVQ TVT KEATN-STAR
	or
	JUELE L463 NUCAR AR3 OLDEY METTA CHS CAE HVQ TVT KEATN-STAR
Dayton (DAY)	BESAS L464 CERDA L451 OLDEY METTA CHS CAE SPA HMV FLM KEKEE-STAR
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK J24 HVQ HNN
	or JUELE L463 NUCAR AR3 OLDEY METTA CHS CAE
	SPA HMV FLM KEKEE–STAR
Detroit (DTW)	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HNN WEEDA-STAR
	or
	BESAS L464 CERDA L451 OLDEY METTA CHS SPA HNN WEEDA-STAR
	or JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA
Indianapolis (IND)	HNN WEEDA-STAR BESAS L464 CERDA LNHOM L452 OXANA AR8
	ECG IIU V51 DECEE DECEE-STAR
	or BESAS L464 CERDA L451 OLDEY METTA CHS SPA CAE VXV J89 IIU V51 DECEE DECEE-STAR.
	or
	JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA CAE VXV J89 IIU V51 DECEE DECEE-STAR
Kennedy (JFK)	BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ CAMRN
	BESAS L464 CERDA LNHOM L452 OXANA AR8
	ecg ORF J121 SIE CAMRN-STAR
	BESAS L464 CERDA LUCTI L454 OWENZ CAMRN .
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR
	JUELE L463 NUCAR AR3 PANAL DIW WETRO
La Guardia (LGA)	CEBEE SWL J121 SIE CAMRN-STAR BESAS L464 LAMER L453 AZEZU BERGH L454
	OWENZ CAMRN
	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HPW J191 PXT KORRY-STAR

Terminals	Route
	or BESAS L464 CERDA LUCTI L454 OWENZ CAMRN .
	or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J40 TYI HPW J191 PXT KORRY-STAR
	or JUELE L463 NUCAR AR3 CLB ILM J40 TYI HPW J191 PXT KORRY-STAR
Louisville (SDF)	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG HCH DARBY-STAR
	BESAS L464 CERDA L451 OLDEY METTA CHS SPA HCH DARBY-STAR
	or JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA HCH DARBY-STAR
Montreal (CYMX), (CYUL)	BESAS L464 LAMER L453 AZEZU BERGH L454
	JFK J37 ALB J6 PLB PLATTSBURGH-STAR or
	JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY
Maurinkaus (MANII)	J79 JFK J37 ALB J6 PLB PLATTSBURGH-STAR
Morristown (MMU)	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)-STAR
	or BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ
	or BESAS L464 CERDA LUCTI L454 OWENZ or
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR
Newark (EWR)	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK DYLIN-STAR
	Or BESAS L464 CERDA LNHOM L452 OXANA AR8
	ecg fak Phlbo (RNAV)-STAR or
	BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ CYN GXU RBV V249 METRO
	or
	BESAS L464 CERDA LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO or
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK DYLIN-STAR
	or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK PHLBO (RNAV)-STAR
	or JUELE L463 NUCAR AR3 CLB ILM J109 FAK DYLIN-STAR
	or JUELE L463 NUCAR AR3 CLB ILM J109 FAK PHLBO (RNAV)-STAR
Ottawa (CYOW)	BESAS L464 CERDA LUCTI L454 JFK SYR J599
	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK SYR J599
	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SYR J599
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Terminals	Route
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM SYR J599or
Philadelphia (PHL)	JUELE L463 NUCAR AR3 CLB ILM SYR J599 BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL RADDS CEDAR LAKE-STAR
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL RADDS CEDAR LAKE-STAR
Providence (PVD)	BESAS L464 LAMER L453 AZEZU B24 SIE BESAS L464 CERDA LUCTI L454 BERGH OWENZ HTO JORDN
	or BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO JORDN
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL J174 HTO JORDN
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW SWL J174 HTO JORDN
	or JUELE L463 NUCAR AR3 PANAL DIW SWL J174
Quebec (CYQB)	HTO JORDNBESAS L464 CERDA LUCTI L454 JFK PLB J560
	or BESAS L464 LAMER L453 AZEZU BERGH L454 JFK PLB J560
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG ORF SBY J209 VILLS SAX J6 PLB J560
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560
	JUELE L463 NUCAR AR3 PANAL DIW J174 ORF
Raleigh/Durham (RDU)	SBY J209 VILLS SAX J6 PLB J560 BESAS L464 CERDA L451 OLDEY ILM
	BRADE-STARor
Teterboro (TEB)	JUELE L463 NUCAR ILM BRADE-STAR BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)-STAR
	or
	BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZor
	BESAS L464 CERDA LUCTI L454 OWENZ
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR
	or JUELE L463 NUCAR AR3 CLB ILM J109 FAK JAIKE
Toronto (CYYZ)	(RNAV)-STARBESAS L464 LAMER L453 AZEZU BERGH L454
	JFK J63 HUO CFB J95 BUF YOUTH (RNAV)-STAR
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM
	J109 BUF YOUTH (RNAV)-STARor
	JUELE L463 NUCAR AR3 CLB ILM J109 BUF YOUTH (RNAV)-STAR
Washington (DCA)	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC IRONS-STAR

		Times
Terminals	Route	(UTC)
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC OJAAY (RNAV)-STAR	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM	
	J40 RIC IRONS-STAR	
	Or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J40 RIC OJAAY (RNAV)-STAR	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J40 RIC	
	IRONS-STARor	
	JUELE L463 NUCAR AR3 CLB ILM J40 RIC OJAAY	
	(RNAV)-STAR	
Washington (IAD)	BESAS L464 CERDA LNHOM L452 OXANA ECG	
	FAK BARIN (RNAV)-STAR	
	BESAS L464 CERDA LNHOM L452 OXANA ECG	
	FAK COATT-STAR	
	Or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK BARIN (RNAV)-STAR	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM	
	J109 FAK COATT-STAR	
	or JUELE L463 NUCAR AR3 CLB ILM J109 FAK	
	BARIN (RNAV)-STAR	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK	
White Plains (HPN)	COATT-STARBESAS L464 CERDA L451 OLDEY ECG ORF J121	
,	SIE BOUNO-STAR	
	Or	
	JUELE L463 NUCAR AR3 PANAL DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR	
	or	
	BESAS L464 CERDA LUCTI L454 OWENZ	
	or BESAS L464 LAMER L453 AZEZU BERGH L454	
	OWENZ	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8	
Windsor Locks (BDL)	ECG ORF J121 SIE BOUNO-STAR BESAS L464 CERDA L451 OLDEY AR3 CLB ILM	
,	KEMPR SBY J79 JFK DPK DPK-STAR	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK DPK DPK-STAR	
	or	
	JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY	
Winning (OVINO)	J79 JFK DPK DPK-STAR	
Winnipeg (CYWG)	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG IIU J99 BAE MSP	
	or	
	BESAS L464 CERDA L451 OLDEY METTA CHS	
	VXV J89 IIU J99 BAE MSP	
	JUELE L463 NUCAR AR3 OLDEY METTA CHS VXV	
	J89 IIU J99 BAE MSP	
SARASOTA-BRADENTON AREA (SRQ)	TAV IZE OAE IEO DIO OTT OTAD	4400 0000
Baltimore (BWI)	TAY J75 CAE J52 RIC OTT-STAR	1100-0300
	(GPS or DME/DME-IRU equipped) TAY J75 CAE	
	J52 RIC RAVNN (RNAV)-STAR	1100-0300

erminals Charlotte (CLT)	Route TAY J85 IRQ UNARM-STAR	Times (UTC)
Sharlotte (SE1)	or	
	(Turbojets-GPS or DME/DME IRU equipped) TAY J85 IRQ ADENA (RNAV)-STAR	
Chicago Midway (MDW)	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK	
,	FISSK (RNAV)-STAR	1100-0300
	(non-advanced RNAV only) CTY J91 ATL J89 IIU	
Objects O'llers (ODD)	OKK V285 CLEFT OXI CGT	1100-0300
Chicago O'Hare (ORD)	(/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO	
	(RNAV)-STARor	0000–2359
	(non-advanced RNAV only) CTY J91 ATL CADIT	
	GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33	0000 0050
Cincinnati (CVG)	OXI KNOX-STAR(RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR	0000–2359
monnaci (ova)	or	
	(all others) CTY J91 VXV HARDU-STAR	
Cleveland (CLE)	PIE J119 TAY J85 TVT040 KEATN KEATN-STAR	
columbus (CMH) Pallas/Ft. Worth (DFW)	PIE J119 TAY J85 HVQ HNN BREMN-STAR (Water) SRQ Q100 REDFN Q105 HRV J58 AEX	
	CQY	
enver (DEN)	(Water) Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR	
Petroit/Wayne (DTW)	PIE TAY J85 SPA HNN WEEDA-STAR	
etroit Satellites: Ann Arbor (ARB), Pontiac (PTK), Willow		
un (YIP)	PIE J119 TAY J85 IRQ J99 VXV J43 FLM DQN	
	CRUXX-STAR	
Young (DET)	PIE J119 TAY J85 DJB LLEEO-STAR	4000 0000
ort Lauderdale (FLL)	(all others) RSW FORTL–STAR	1030-0300
	(GPS or DME/DME-IRU equipped) RSW FORTL	
	JINGL (RNAV)-STAR	
ouston (HOU)	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV	
	COLUMBIA (RNAV)-STAR	
	or (GPS or DME/DME-IRU equipped) SZW J2 SJI	
	COLUMBIA (RNAV)-STAR	
	or	
	(Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR	
louston (IAH)	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV	
. ,	WOLDE (RNAV)-STAR	
	Or	
	(GPS or DME/DME-IRU equipped) SZW J2 SJI WOLDE (RNAV)-STAR	
	or	
	(Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR	
ndianapolis (IND)	CTY J91 ATL J89 IIU DECEE-STAR	
a Guardia (LGA)	TAY J75 DUNKN J210 VAN FLO J207 RDU J55	
ouisville (LOU, SDF)	HPW J191 PXT KORRY-STAR CTY J91 ATL HCH DARBY-STAR	
finneapolis (MSP)	CTY J91 ATL J89 BAE EAU-STAR	
lashville (BNA)	CTY J91 ATL GQO VOLLS-STAR	1100-0300
Newark (EWR)	TAY J75 CAE J51 FAK DYLIN-STAR	1100-0300
	or (GPS or DME/DME-IRU equipped) TAY J75 CAE	
	J51 FAK PHLBO (RNAV)-STAR	1100-0300
Philadelphia (PHL)	TAY J75 CAE J51 FAK DPNT-STAR	
Pittsburgh (PIT)	TAY J75 CAE PSK J53 EKN IHD NESTO-STAR	0700 0000
Windsor Locks (BDL)	TAY J75 DUNKN J210 J79 JFK DPK DPK-STAR	0700–0000
AVANNAH (SAV)	CHE 170 TVI 140 DIC OTT CTAD	1100 0400
Baltimore (BWI)	CHS J79 TYI J40 RIC OTT-STAR	1100-0400

Terminals Philadelphia (PHL) Washington Dulles (IAD)	Route CHS J121 SWL SWL SWL034 RADDS VCN-STAR J207 RDU FAK COATT-STAR or (GPS or DME/DME-IRU equipped J207 RDU FAK BARIN-STAR	Effective Times (UTC) 1100-0400
TAMPA/ST PETERSBURG METRO AREA (TPA, SPG, PIE, TPF)		
Atlanta (ATL)	SZW LGC-STAR	
Baltimore (BWI)	(RNAV only) SZW HONIE (RNAV)-STAR TAY J75 CAE J52 RIC OTT-STAR	1100-0400
Boston (BOS) Charlotte (CLT)	(GPS or DME/DME-IRU equipped) TAY J75 CAE J52 RIC RAVNN (RNAV)-STAR TAY J75 DUNKN J210 J79 JFK ORW-STAR TAY J85 IRQ UNARM-STAR	1100-0400 1100-0400
Chicago Midway (MDW)	(Turbojets-GPS or DME/DME IRU equipped) TAY J85 IRQ ADENA (RNAV)-STAR (/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR	1100-0300
Chicago O'Hare (ORD)	or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT(/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK MZZ ROYKO (RNAV)-STAR or	1100-0300 0000-2359
Cincinnati (CVG)	(non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR	0000–2359
Cleveland Metro (CLE)	PIE J119 TAY J85 TVT040 KEATN KEATN-STAR or	
Columbus (CMH)	CTY J91 HNN TVT KEATN-STAR PIE J119 TAY J85 HVQ HNN BREMN-STAR or	
Denver (DEN)	CTY J91 HNN BREMN-STAR SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR	
Detroit/Wayne (DTW) Detroit Satellites: Ann Arbor (ARB), Pontiac (PTK), Young	TAY J85 SPA HNN WEEDA-STAR	
(DET)	CTY J91 VXV J43 FLM DQN CRUXX-STAR CTY J91 VXV J43 FLM DQN V98 VQQ CRUXX PIE J119 TAY J85 DJB LLEEO-STAR	
(HWO), Opa Locka (OPF)	(all others) RSW FORTL-STAR	1030-0300
Fort Myers (RSW), (FMY)	(GPS OR DME/DME-IRU equipped) SABEE RXXAN JINGL (RNAV)-STAR(Turbojets-GPS or DME/DME-IRU equipped) SRQ	
	TYNEE (RNAV)-STARVRB	1020 0200
Fort Pierce (FPR)	(GPS or DME/DME-IRU equipped) SIMMR REMIS Q100 LEV COLUMBIA (RNAV)-STAR	1030-0300 1000-0300
	or (GPS or DME/DME-IRU equipped) SZW J2 SJI COLUMBIA (RNAV)-STAR	1000-0300
	(Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR	1000-0300

Terminals	Route	Effective Times (UTC)
Houston (IAH)	(GPS or DME/DME-IRU equipped) SIMMR REMIS Q100 LEV WOLDE (RNAV)-STAR	1000-0300
	(GPS or DME/DME–IRU equipped) SZW J2 SJI WOLDE (RNAV)–STAR	1000-0300
	(Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR	1000-0300
Indianapolis (IND) Kennedy (JFK)	CTY J91 ATL J89 IIU DECEE-STAR TAY J75 J210 J121 SIE CAMRN-STAR	
Key West (EYW) La Guardia (LGA)	RSW J41TAY J75 DUNKN J210 VAN FLO J207 RDU J55	1030-0300
Louisville (SDF)	HPW J191 PXT KORRY-STARCTY J91 ATL HCH DARBY-STAR	1100-0400
Miami (MIA)	(all others) RSW CYY CYY-STAR	1030-0300
	or (Turbojets-GPS or DME/DME-IRU equipped) RSW CYY SSCOT (RNAV)-STAR	
Minneapolis (MSP)	CTY J91 ATL J89 BAE EAU-STARCTY J91 ATL GOO VOLLS-STAR	
Newark (EWR)	TAY J75 CAE J51 FAK DYLIN-STAR	1100-0400
	(GPS or DME/DME-IRU equipped) TAY J75 CAE	
	J51 FAK PHLBO (RNAV)-STAR	1100-0400
Philadelphia (PHL)	TAY J75 CAE J51 FAK DPNT-STAR	1100-0400
Pittsburgh (PIT)	TAY J75 CAE PSK EKN IHD NESTO-STARTAY J75 CAE BUZZY-STAR	
Washington Dulles (IAD)	TAY J75 CAE J51 FAK COATT-STAR	1100-0400
Washington Natl (DCA)	TAY J75 CAE J52 RIC IRONS-STAR	1100-0400
5	or GPS or DME/DME-IRU equipped) TAY J75 CAE	
	J52 RIC OJAAY (RNAV)-STAR	1100-0400
West Palm Beach (PBI)	(Turbojets-GPS or DME/DME-IRU equipped)	1100-0400
West rain beach (r bi)	SABEE JOOOE WLACE (RNAV)–STAR	
Windsor Locks (BDL) From St Petersburg (PIE) only:	TAY J75 DUNKN J210 J79 JFK DPK DPK-STAR	0700-0000
Detroit Satellites:	TAY J85 SPA HNN WEEDA-STAR	
Ann Arbor (ARB), Pontiac (PTK) Willow		
Run (YIP)	CTY J91 VXV J43 FLM DQN CRUXX-STAR	
Windsor (CYQG), Young (DET)	PIE J119 TAY J85 DJB LLEEO-STAR	

SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR ATLANTA HARTSFIELD INTL ARPT (JETS AND TURBOPROPS)

NORTHEAST

Traffic originating Mortil and East of 1100 to M	
	MOL WHINZ-STAR
	or
	MOL FLCON (RNAV)-STAR
	J145 ODF WHINZ-STAR
	or
	J145 ODF FLCON (RNAV)-STAR
	VXV WHINZ-STAR
	or
	VXV FLCON (RNAV)-STAR
	J186 ODF WHINZ-STAR
	or
	J186 ODF FLCON (RNAV)-STAR
	SPA ODF WHINZ-STAR
	or
	SPA ODF FLCON (RNAV)-STAR
SOUTHEAST	
Traffic originating South of a line from ATL to F	ONLL to East of ISO file:
	IRQ SINCA-STAR
	or
	IRQ CANUK (RNAV)-STAR
	DBN SINCA-STAR
	or
	DBN CANUK (RNAV)-STAR
SOUTHWEST	
Traffic originating West of J89 to South and W	est of J14 file:
	MEI LGC-STAR
	or
	MEI HONIE (RNAV)-STAR
	SZW LGC-STAR
	or
	SZW HONIE (RNAV)-STAR
	MGM LGG-STAR
	or
	MGM HONIE (RNAV)-STAR
NORTHWEST	Main Horiz (Minte) Olimination
Traffic originating West and North of J43 to No	
	BWG RMG-STAR
	or
	BWG ERLIN (RNAV)-STAR
	, ,
	BNA RMG-STAR
	or
	BNA ERLIN (RNAV)-STAR
	MEM RMG-STAR
	or
	MEM ERLIN (RNAV-STAR)

SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR ATLANTA TERMINAL AREA AIRPORTS (SATELLITE AIRPORTS ONLY JETS AND TURBOPROPS)

NORTHEAST	
Traffic originating North and East of a line from	ATL to VXV to North of a line from ATL to RDU file:
	J48 ODF AWSON-STAR
	J145 ODF AWSON-STAR
	VXV AWSON-STAR
	J186 ODF AWSON-STAR
	SPA ODF AWSON-STAR
SOUTHEAST	
Traffic originating South of a line from ATL to R	DU, to East of J89 file:
	IRQ TRBOW-STAR
	DBN TRBOW-STAR
SOUTHWEST	
Traffic originating West of J89 to South and We	est of J14 file:
	MEI LGC MIKEE-STAR
	SZW LGC MIKEE-STAR
	MGM LGC MIKEE-STAR
NORTHWEST	
Traffic originating West and North of a line from	ATI to VXV to North of I14 file
	GOO BUNNI-STAR
	ROZ BUNNI-STAR
SPECIAL HIG	H ALTITUDE ARRIVAL ROUTES
FOR CHA	RLOTTE TERMINAL AREA
NORTHEAST	
Traffic originating North and East of J53 to Nor	
Traffic originating North and East of J53 to Nor	LYH MAJIC-STAR
Traffic originating North and East of J53 to Nor	LYH MAJIC-STARRDU SUDSY (RNAV)-STAR
Traffic originating North and East of J53 to Nor	LYH MAJIC-STAR
Traffic originating North and East of J53 to Nor	LYH MAJIC-STARRDU SUDSY (RNAV)-STARROA MAJIC-STAR
Traffic originating North and East of J53 to Nor SOUTHEAST Traffic originating South of a line from CLT to F	LYH MAJIC-STARRDU SUDSY (RNAV)-STARROA MAJIC-STAR
Traffic originating North and East of J53 to Nor	LYH MAJIC–STAR RDU SUDSY (RNAV)–STAR ROA MAJIC–STAR DU to South and East of J51 file: FLO CTF–STAR
Traffic originating North and East of J53 to Nor SOUTHEAST Traffic originating South of a line from CLT to F	LYH MAJIC-STARRDU SUDSY (RNAV)-STARROA MAJIC-STAR
SOUTHEAST Traffic originating South of a line from CLT to R SOUTHWEST	LYH MAJIC-STAR. RDU SUDSY (RNAV)-STAR. ROA MAJIC-STAR. DU to South and East of J51 file: FLO CTF-STAR. FLO HUSTN (RNAV)-STAR.
Traffic originating North and East of J53 to Nor SOUTHEAST Traffic originating South of a line from CLT to F	LYH MAJIC-STAR RDU SUDSY (RNAV)-STAR ROA MAJIC-STAR DU to South and East of J51 file: FLO CTF-STAR FLO HUSTN (RNAV)-STAR
SOUTHEAST Traffic originating South of a line from CLT to R SOUTHWEST	LYH MAJIC-STAR RDU SUDSY (RNAV)-STAR ROA MAJIC-STAR DU to South and East of J51 file: FLO CTF-STAR FLO HUSTN (RNAV)-STAR 3 file: ATL ADENA (RNAV)-STAR
SOUTHEAST Traffic originating South of a line from CLT to F SOUTHWEST Traffic originating West of J51 to South of J118	LYH MAJIC-STAR. RDU SUDSY (RNAV)-STAR. ROA MAJIC-STAR. DU to South and East of J51 file: FLO CTF-STAR. FLO HUSTN (RNAV)-STAR. 3 file: ATL ADENA (RNAV)-STAR. ATL UNARM-STAR.
Traffic originating North and East of J53 to Nor SOUTHEAST Traffic originating South of a line from CLT to F SOUTHWEST Traffic originating West of J51 to South of J118	LYH MAJIC-STAR. RDU SUDSY (RNAV)-STAR ROA MAJIC-STAR DU to South and East of J51 file: FLO CTF-STAR FLO HUSTN (RNAV)-STAR 8 file: ATL ADENA (RNAV)-STAR IRQ ADENA (RNAV)-STAR
SOUTHEAST Traffic originating South of a line from CLT to F SOUTHWEST Traffic originating West of J51 to South of J118	LYH MAJIC-STAR. RDU SUDSY (RNAV)-STAR. ROA MAJIC-STAR. DU to South and East of J51 file: FLO CTF-STAR. FLO HUSTN (RNAV)-STAR. 3 file: ATL ADENA (RNAV)-STAR. ATL UNARM-STAR.
Traffic originating North and East of J53 to Northeast SOUTHEAST Traffic originating South of a line from CLT to F SOUTHWEST Traffic originating West of J51 to South of J118 NORTHWEST	LYH MAJIC-STAR RDU SUDSY (RNAV)-STAR ROA MAJIC-STAR DU to South and East of J51 file: FLO CTF-STAR FLO HUSTN (RNAV)-STAR 3 file: ATL ADENA (RNAV)-STAR ATL UNARM-STAR IRQ ADENA (RNAV)-STAR IRQ UNARM-STAR IRQ UNARM-STAR
SOUTHEAST Traffic originating South of a line from CLT to F SOUTHWEST Traffic originating West of J51 to South of J118	LYH MAJIC-STAR. RDU SUDSY (RNAV)-STAR. ROA MAJIC-STAR. DU to South and East of J51 file: FLO CTF-STAR FLO HUSTN (RNAV)-STAR. 3 file: ATL ADENA (RNAV)-STAR ATL UNARM-STAR IRQ ADENA (RNAV)-STAR IRQ UNARM-STAR
Traffic originating North and East of J53 to Northeast SOUTHEAST Traffic originating South of a line from CLT to F SOUTHWEST Traffic originating West of J51 to South of J118 NORTHWEST	LYH MAJIC-STAR RDU SUDSY (RNAV)-STAR ROA MAJIC-STAR DU to South and East of J51 file: FLO CTF-STAR FLO HUSTN (RNAV)-STAR 3 file: ATL ADENA (RNAV)-STAR ATL UNARM-STAR IRQ ADENA (RNAV)-STAR IRQ UNARM-STAR IRQ UNARM-STAR

SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR MEMPHIS TERMINAL AREA

Traffic entering Memphis ARTCC north of J118:		
	BNA WILDER-STAR	
	BWG WILDER-STAR	
	PXV WILDER-STAR	
NORTHWEST		
Traffic entering Memphis ARTCC on or west of J	35:	
	FAM GQE-STAR	
	ARG GQE-STAR	
	SGF ARG GQE-STAR	
	RZC GQE-STAR	
	FSM GQE-STAR	1100-0200
SOUTHEAST		
Traffic entering Memphis ARTCC south of J118:		
	VUZ HLI-STAR (MONDAY-FRIDAY)	
SOUTHWEST	GQO HLI-STAR	1100-0200
Traffic entering Memphis ARTCC on or south of	16:	
	LIT MARVELL-STAR	
	TXK MARVELL-STAR	
	ELD MARVELL-STAR	
	SQS MARVELL-STAR	
SPECIAL HIGH A	LTITUDE DIRECTIONAL ROUTES	
		Effective
		Times
Torminals	Pouto	
Terminals	Route	(UTC)
Traffic entering Miami Center (ZMA) for northbound	Caribbean flights originating from Santo Domingo	(UTC)
	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463	(UTC)
Traffic entering Miami Center (ZMA) for northbound	Caribbean flights originating from Santo Domingo	(UTC)
Traffic entering Miami Center (ZMA) for northbound	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463	(UTC)
Traffic entering Miami Center (ZMA) for northbound	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)-STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STARor JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL—STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound FLL	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound FLL	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STARor JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL—STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound FLL	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STARor JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL—STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound FLL	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STARor or JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL DEKAL—STARor	(UTC)
Traffic entering Miami Center (ZMA) for northbound FLL	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound FLL	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound FLL	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound FLL	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound FLL	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound FLL	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound FLL	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound FLL	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound FLL	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound FLL	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound FLL	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STAR	(UTC)
Traffic entering Miami Center (ZMA) for northbound FLL	Caribbean flights originating from Santo Domingo (Advanced RNAV equipped) JUELE L463 BTLER A555 ZQA 054V CAREY DEKAL WAVUN (RNAV)—STAR	(UTC)

RETAK A636 ZIN A315 HODGY ZQA 054V.....

	Route	Times (UTC)
Traffic overflying Atlanta Center originating north a	ond east of a line from TYS to LAL (except DAY and PSK CAE SAV OMN BITHO-STAR	d CVG) for ZTL to MCO: 1100-0400
	J83 SPA CAE SAV OMN BITHO-STAR	1100-0400
	(GPS or DME/DME-equipped) PSK CAE SAV OMN CWRLD (RNAV)-STAR	1100-0400
	(GPS or DME/DME-IRU equipped) J83 SPA CAE SAV OMN CWRLD (RNAV)-STAR	1100-0400
Traffic overflying Atlanta Center Eastbound origina	ting South of a line from DFW to JFK:	
BDL	GRD J209 RDU J207 FKN J79 JFK DPK DPK-STAR	
BOS	(Turbojet only) GRD J209 RDU J207 FKN J79 JFK ORW-STAR	
	(Turboprop only) SIE J121 HTO V308 ORW	
	V16 WOONS	
BWI	SPA J14 RIC OTT-STAR	
	(GPS or DME/DME.IRU equipped) SPA J14	
	RIC RAVNN (RNAV)-STAR	
DCA	SPA J14 RIC IRONS-STAR	
	or	
	(GPS or DME/DME-IRU equipped) SPA J14	
EW/D	RIC OJAAY (RNAV)-STAR SPA J14 J15 FAK DYLIN-STAR	
EWR	or	
	(GPS or DME/DME.IRU equipped) SPA J14	
	J51 FAK PHLBO (RNAV)-STAR	
IAD	SPA J14 J51 FAK COATT-STARR	
JFK	GRD J209 ORF J121 SIE CAMRN-STAR	
LGA	AHN J208 HPW J191 PXT KORRY-STAR	
PHL	SPA J14 J51 FAK DPNT-STAR	
Northbound from over VXV with destination of CMF		
	VXV J91 HNN BREMN-STAR	
Traffic overflying Atlanta Center Northbound from C		
	SPA J85 HVQ HNN BREMN-STAR	
Traffic overflying Atlanta Center Northbound from		
Traffic arrestring Aklanta Contan Contable and arisin	PSK HVQ HNN BREMN-STAR	
Traffic overflying Atlanta Center Southbound origin (except DAY and CVG) with destinations of FLL, FN	MY, MCO, MIA, PBI, RSW, SRQ and TPA file:	4400 0000
	PSK CAE	1100-0300
	J83 SPA J85 AMG	1100-0300
Traffic overflying Atlanta Center Southbound origin (with DAY and CVG) with destinations of FLL, FMY,	=	
	VXV J91 ATL OTK	1100-0300
	BNA J73 SZWor	1100-0300
	MGM J20 SZW	1100-0300
	BNA J73 SZW	1100-0300
	MGM J20 SZW	1100-0300

	Route	Effective Times (UTC)
Traffic originating South of Wilmington VORTAC (IL		(010)
EWR	ILM J109 FAK DYLIN-STARor or (GPS or DME/DME.IRU equipped) ILM J109	1100-0300
FRG	FAK PHLBO (RNAV)-STAR	1100-0300
LGA	CEBEE SWL J121 SIE CAMRN-STARILM TYI HPW J191 PXT KORRY-STAR	1100-0300 1100-0300
Traffic overflying Ormond Beach VORTAC (OMN) de	estined MIA:	
OMN	OMN J79 VRB HEATT-STAR	
Traffic entering Miami Center (ZMA) for southboun Nagua (MDCY):	d Caribbean flights on L452/L453/L454 to La Ro	omana (MDLR) and
ZMA	LETON L450 GTK ASIVO	
	or LNHOM L452 GTK ASIVO	
	LAMER L464 CERDA L453 ASIVO	
	or MLLER M594 CERDA L459 ASIVOor	
	NUCAR L463 RNDLY ASIVO	
Traffic entering Miami Center (ZMA) for southboun ZMA	d Caribbean flights on L452/L453/L454 to Puert LETON L450 SEKAR A554 PTAor	o Plata (MDPP):
	LNHOM L452 GTK A554 PTA	
	or LAMER L453 MACKI B891 PTA	
	LUCTI L454 MNDEZ M594 CERDA L453 MACKI B891 PTA	
	or MLLER M594 CERDA L453 MACKI B891 PTA	
	or NUCAR L463 RNDLY SEKAR A554 PTA	
	or WATRS M596 PTA	
Traffic entering Miami Center (ZMA) for southboun ZMA	LETON L450 SEKAR A554 CDO	Domingo (MDSD):
	or LNHOM L452 GTK L450 SEKAR A554 CDO or	
	LAMER L453 ASIVO CDO	
	or LUCTI L454 MNDEZ M594 CERDA L453 ASIVO CDO	
	or MLLER M594 CERDA L453 ASIVO CDO	
	or	
	NUCAR L463 RNDLY SEKAR A554 CDO	

	Route	Effective Times (UTC)
Traffic entering Miami Center (ZMA) for southbound ZMA	Caribbean flights on L452/L453/L454 to Port at LETON L450 GTK G444 OBN	u Prince (MTPP):
	LNHOM L452 GTK G444 OBN	
	LAMER L464 CERDA M594 GTK G444 OBN .	
Traffic entering Miami Center (ZMA) for southbound ZMA	Caribbean flights on L452/L453/L454 to Saint . LETON L451 ELMUC L451 ANU	Johns Island (TAPA):
	LNHOM L452 JORGG L451 ELMUC L451	
	ANUor	
	LAMER L453 CERDA L451 ELMUC L451 ANU	
	or LUCTI L454 ELMUC L451 ANU	
Traffic entering Miami Center (ZMA) for southbound ZMA	Caribbean flights on L452/L453/L454 to Bridge LETON L451 ELMUC L454 ILURI A555 BGI or	town (TBPB):
	LNHOM L452 JORGG L451 ELMUC L454 ILURI A555 BGI	
	or LAMER L453 CERDA L451 ELMUC L454	
	ILURI A555 BGI	
	or LUCTI L454 ELMUC L454 ILURI A555 BGI	
Traffic entering Miami Center (ZMA) for southbound ZMA	Caribbean flights on L452/L453/L454 to Fort do LETON L451 ELMUC L454 ILURI A555 FOF	e France (TFFF):
	or LNHOM L452 JORGG L451 ELMUC L454 ILURI A555 FOF	
	or	
	ILURI A555 FOF	
	or LUCTI L454 ELMUC L454 ILURI A555 FOF	
Traffic entering Miami Center (ZMA) for southbound		Caso (TEEG) and Sain
Barthelemy (TFFJ) and Oranjestad-Roosevelt (TNCE		
	or LNHOM L452 JORGG L451 ELMUC L451 PJM	
	or LAMER L453 CERDA L451 ELMUC L451 PJM	
	or LUCTI L454 ELMUC L451 PJM	
Traffic entering Miami Center (ZMA) for southbound		a Pitre (TFFR):
ZMA	R888 PPRor	
	LNHOM L452 JORGG L451 ELMUC L454 LEEOO MODUX R888 PPR	
	or LAMER L453 CERDA L451 ELMUC L454 LEEOO MODUX R888 PPR	
	or LUCTI L454 FLMUC L454 LEEQO MODUX	

R888 PPR

Effective Times (UTC)

Route

Traffic entering Miami Center (ZMA) for southbound (TIST):	d Caribbean flights on L452/L453/L454 to Saint Thomas Virgin Islands
ZMA	LETON L451 ELMUC L454 PANMO JETSS
	LNHOM L452 JORGG L451 ELMUC L454
	PANMO JETSS
	or
	LAMER L453 CERDA L451 ELMUC L454
	PANMO JETSS
	or
	LUCTI L454 ELMUC L454 PANMO JETSS
Traffic entering Miami Center (7MA) for southhouse	d Caribbean flights on L452/L453/L454 to Saint Croix Virgin Islands
(TISX):	d danibbean nights on E402/ E400/ E404 to Saint Grow Virgin Islands
ZMA	LETON L451 ELMUC L454 PANMO COY
	LNHOM L452 JORGG L451 ELMUC L454
	PANMO COY
	or
	LAMER L453 CERDA L451 ELMUC L454
	PANMO COY
	or
	LUCTI L454 ELMUC L454 PANMO COY
Tariffic and all Mineri Ocaton (7MA) for example 1	d One Ship and Clinton and LAFO (LAFO (LAFO A Arganistic (TIPO))
	d Caribbean flights on L452/L453/L454 to Aguadilla (TJBQ):
ZMA	or
	LNHOM L452 JORGG L451 ELMUC BQN
	or
	LAMER L453 CERDA L451 ELMUC BQN
	or
	LUCTI L454 ELMUC BQN
Traffic antoning Miner: Contag (7MA) for another and	d Caribbaca flights on LAEO /LAEO /LAEA to Con Luca /TUC).
ZMA	d Caribbean flights on L452/L453/L454 to San Juan (TJIG): LETON L451 ELMUC IDAHO BEANO
ZIVIA	or
	LNHOM L452 JORGG L451 ELMUC IDAHO
	BEANO
	or
	LAMER L453 CERDA L451 ELMUC IDAHO
	BEANO
	or
	LUCTI L454 ELMUC IDAHO BEANO
Traffic entering Miami Center (7MA) for couthhouse	Coribboon flights on LAE2 /LAE2 /LAE4 to Moyoguez /TIM7)
ZMA	d Caribbean flights on L452/L453/L454 to Mayaguez (TJMZ): LETON L451 ELMUC MAZ
ZIVIA	or
	LNHOM L452 JORGG L451 ELMUC MAZ
	or
	LAMER L453 CERDA L451 ELMUC MAZ
	or
	LUCTI L454 ELMUC MAZ

	Route	(UTC)
Traffic entering Miami Center (ZMA) for southbound ZMA	Caribbean flights on L452/L453/L454 to Ponce LETON L451 ELMUC PSE	(TJPS):
	LNHOM L452 JORGG L451 ELMUC PSE	
	LAMER L453 CERDA L451 ELMUC PSE or	
	LUCTI L454 ELMUC PSE	
Traffic entering Miami Center (ZMA) for southbound ZMA	LETON L451 ELMUC IDAHO ROO6	ıan (TJSJ):
	or LNHOM L452 JORGG L451 ELMUC IDAHO R006	
	or LAMER L453 CERDA L451 ELMUC IDAHO R006	
	or LUCTI L454 ELMUC IDAHO R006	
Traffic entering Miami Center (ZMA) for southbound Charlestown (TKPN):	Caribbean flights on L452/L453/L454 to Golder	n Rock (TKPK) and
ZMA	LETON L451 ELMUC L454 LEEOO DANDE G633 SKB	
	LNHOM L452 JORGG L451 ELMUC L454 LEEOO DANDE G633 SKB	
	or LAMER L453 CERDA L451 ELMUC L454	
	or	
	LUCTI L454 ELMUC L454 LEE00 DANDE G633 SKB	
Traffic entering Miami Center (ZMA) for southbound of Spain (TTPP):	Caribbean flights on L452/L453/L454 to Crown	Point (TTCP) and Port
ZMA	LETON L451 ELMUC G431 DDP G449 POS or	
	LNHOM L452 JORGG L451 ELMUC G431 DDP G449 POSor	
	LAMER L453 CERDA L451 ELMUC G431 DDP G449 POS	
	or LUCTI L454 ELMUC G431 DDP G449 POS or	
	GTK L452 ANADA G449 POS	

Effective

PREFERRED IFR ROUTES HIGH ALTITUDE—SINGLE DIRECTION ROUTES

Airway	Segment Fixes	Direction Effective	Times (UTC)
J14	Greensboro, NC to Richmond, VA	Northeast	1100-0300
J37	Coyle, NJ to Spartanburg, SC	Southwest	1100-0300
J40	Wilmington, NC to Richmond, VA	North	1100-0300
J48	Pottstown, PA to Foothills, GA	Southwest	1100-0300
J51	Columbia, SC to Yardley, NJ	Northeast	1100-0300
J52	Columbia, SC to Richmond, VA	Northeast	1100-0300
J55	Florence, SC to HUBBS Int., VA	Northeast	1100-0300
J75	Modena, PA to Greensboro, NC	Southwest	1100-0300
J89	Atlanta, GA to HITTR Int, FL	South	1100-0300
J91	Cross City, FL to Atlanta, GA	North	1100-0300
J109	Wilmington, NC to Buffalo, NY	North	1100-0300
J165	Charleston, SC to Richmond, VA	North	1100-0300
J191	Wilmington, NC to Robbinsville, NJ	North	1100-0300
J193	HUBBS Int., VA to Wilmington, NC	South	1100-0300
J207	Florence, SC to Franklin, VA	Northeast	1100-0300
J208	Athens, GA to Hopewell, VA	Northeast	1100-0300
J209	Greenwood, SC to Norfolk, VA	Northeast	1100-0300

458 Q-ROUTES

GULF OF MEXICO "Q ROUTES"

These area navigation routes extend more than 12 miles off shore in airspace controlled by the Federal Aviation Administration (FAA). Additional regulatory information for these routes can be found in the Notices to Airmen Publication, Part 3, International Notices to Airmen.

These routes have a Minimum Obstruction Clearance Altitude (MOCA) of 1500 feet (MSL). The Minimum Enroute Altitude (MEA) for these routes is 6000 feet (MSL).

Q100

LEV VORTAC

REDFN N28°52.98'/W088°42.11'
ROZZI N28°18.87'/W086°42.31'
REMIS N27°53.04'/W085°15.47'

SRO VORTAC

0102

LEZ VORTAC

BLVNS N28°22.94'/W088°02.05' BUNNZ N28°00.58'/W086°45.76' BACCA N27°35.51'/W085°20.66' CIGAR N27°29.61'/W084'46.99' BAGGS N27°08.06'/W082°50.45'

CYY VORTAC

0105

HRV VORTAC

FATSO N29°41.40'/W089°47.08'
REDFN N28°52.98'/W088°42.11'
BLVNS N28°22.94'/W088°02.05'

O-ROUTES REGULATORY

Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not authorized.

Q routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to Q routes in the Gulf of Mexico. Gulf of Mexico Q routes are explained in the Southeast and South Central A/FD volumes. Q routes listed in this AF/D volume have at least part of one of their leg segments within this volume's area of coverage.

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU RNAV MEAs will only be published if above FL 180.

DME facilities that have been assessed for RNAV operations are listed below. Q routes with no DME facilities listed are limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

Route Q1	Segment ELMAA-ERAVE	DME BTG, OLM, HQM, HUH, UBG
-	ERAVE-EASON	BTG, OLM, HQM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG
	EASON-EBINY	CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT
	EBINY-ENVIE	CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS
	ENVIE-ETCHY	OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS
	ETCHY-POINT REYES	LIN, ECA, RBL, ENI, SAC, OAK
Q2	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-HOBOL	BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS
	HOBOL-ITUCO	TFD, GBN, BLH, PXR, TUS, CIE, SSO
	ITUCO-NEWMAN	EWM, TFD, PXR, CIE, SSO, TUS, TCS
Q3	FEPOT-FAMUK	OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG
	FAMUK-FRFLY	BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT
	FRFLY-FINER	OED, EUG, RBL, LMT, ENI, CVO, FJS
	FINER-FOWND	OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS
	FOWND-POINT REYES	LIN, ECA, PYE, RBL, SAC, ENI
Q4	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-SCOLE	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SCOLE-SPTFR	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SPTFR-ZEBOL	EED, IPL, BZA, GBN, TFD, PXR, BLH
	ZEBOL-SKTTR	PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS
	SKTTR-EL PASO	EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME

Route	Segment	DME
Q5	HAROB-HISKU	OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH
	HISKU-HARPR	ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV
	HARPR-HOMEG	CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV
	HOMEG-HUPTU	SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS
07	HUPTU-STIKM	OAK, ECA, PYE, LIN, SAC, ENI, RBL
Q7	JINMO-JOGEN	CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA
	JOGEN-JUNEJ	LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG
	JUNEJ–JAGWA JAGWA–AVENAL	RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS
Q9	SUMMA-SMIGE	OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED,
Qэ	SUMINA-SIMIGE	EPH, MWH
	SMIGE-SUNBE	IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG
	SUNBE-REBRG	RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED,
	SOURCE MEDICA	SWR
	REBRG-DERBB	CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA
Q11	PAAGE-PAWLI	EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV,
-		OED, SEA
	PAWLI-PITVE	EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO
	PITVE-PUSHH	FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ
	PUSHH-LOS ANGELES	SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS
Q13	All segments	None; GNSS required
Q15	All segments	None; GNSS required
Q19	PLESS-NASHVILLE	ENL, GQO, PXV, BNA, IIU, FAM, BWG, CSX
Q20	CORONA-HONDS	CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME
	HONDS-UNNOS	CNX, INK, CME, TXO, TCC
	UNNOS-FUSCO	FST, ACH, INK, CME, SJT, TXO, TCC
	FUSCO-JUNCTION	ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST
Q21	JONEZ-RAZORBACK	BYP, EOS, TUL, TXK, ADM, RZC, OKM
Q22	GUSTI-OYSTY	AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV
	OYSTY-ACMES	RQR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI
033	ACMES-CATLN	SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI
Q23 Q24	FORT SMITH-RAZORBACK LAKE CHARLES-BATON	
Q24	ROUGE	AEX, DAS, LCH, MCB, LFT, BTR
	BATON ROUGE-IRUBE	AEX, LEV, MCB, LCH, RQR, HRV, BTR, GCV, MCB, PCU, SJI, LBY
	IRUBE-PAYTN	GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI
Q25	MEEOW-WALNUT RIDGE	ELD, MEM, LIT, FAM, RZC
•	WALNUT RIDGE-WLSUN	MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH
	WLSUN-POCKET CITY	BWG, PXV, ENL, BNA, TTH
Q26	WALNUT RIDGE-DEVAC	LIT, JKS,GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG
Q27	FORT SMITH-ZALDA	OKM, SGF, RZC, EOS, TUL
Q28	GRAZN-PYRMD	EIC, LIT, ELD, OKM, TXK
	PYRMD-HAKAT	ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK
	HAKAT-ESTEE	ARG, LIT, FAM, SGF, MEM
	ESTEE-POCKET CITY	ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA
Q29	HARES-MEMPHIS	MEM, ARG, LIT, JAN, ELD, SQS
	MEMPHIS-SIDAE	MEM, PXV, BNA, BWG, ARG, ENL
030	SIDAE-POCKET CITY	PXV, TTH, BWG, ENL
Q30	SIDON-VULCAN DHART-JODOX	GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG
Q31	JODOX-MARVELL	SQS, LIT, TXK SQS, LIT, ELD, MEM, ARG
	MARVELL-TIIDE	ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH
	TIIDE-POCKET CITY	BWG, PXV, ENL, TTH
Q32	EL DORADO-GAGLE	AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK
	GAGLE-CRAMM	JAN, SQS, MEM, ARG, VUZ, BNA, LIT
	CRAMM-NASHVILLE	BWG, MEM, VUZ, BNA, GQO
	NASHVILLE-SWAPP	BWG, IIU, PXV, VXV, BNA, GQO
Q33	DHART-LITTLE ROCK	AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS
	LITTLE ROCK-PROWL	ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL
Q34	TEXARKANA-MATIE	LIT, SWB, TXK, BYP, EIC, ELD, SQS
	MATIE-MEMPHIS	LIT, ARG, MEM, ELD, SQS
	MEMPHIS-SWAPP	BWG, ARG, MEM, MKL, SQS,PXV, BNA, GQO, IIU, VXV
Q35	KIMBERLY-NEERO	LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO
	NEERO-WINEN	BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE
	WINEN-CORKR	CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK
	CORKR-DRAKE	TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD

460 Q-ROUTES

Route	Segment	DME
Q36	RAZORBACK-TWITS	RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT
	TWITS-DEPEC	MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU
	DEPEC-NASHVILLE	GQO, BWG, BNA, PXV, IIU
	NASHVILLE-SWAPP	VXV, BWG, BNA, GQO, PXV, IIU
030		
Q38	ROKIT-INCIN	DAS, LCH, SWB, IAH, LFK, HUB, AEX
	INCIN-LAREY	JAN, MCB, SWB, AEX
	LAREY-BESOM	JAN, JYU, MEI, SQS, VUZ
Q40	ALEXANDRIA-DOOMS	AEX, SWB, LCH, JAN, HEZ, MCB
	DOOMS-WINAP	JAN, SQS, MEI, MCB
	WINAP-MISLE	MEI, VUZ, JYU
Q42	KIRKSVILLE-STRUK	CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX
•	STRUK-DANVILLE	ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK,
	STROKE BARRALE	OBK, GIJ, FWA, GSH, IRK
	DANIVILLE MUNICIE	
	DANVILLE-MUNCIE	GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM
	MUNCIE-HIDON	FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN,
		AIR, HVQ, CXR, EWC
	HIDON-BUBAA	AIR, APE, HNN, CXR, HVQ, EWC, DJB
	BUBAA-PSYKO	AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB
	PSYKO-BRNAN	PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT
	BRNAN-MAALS	EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE
	MAALS-SUZIE	ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK
	SUZIE-EAST TEXAS	JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN
	EAST TEXAS-ELIOT	HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK
Q104	DEFUN-HEVVN	PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG
	HEVVN-PLYER	PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD
	PLYER-SWABE	PIE, ORL, OMN, SRQ, TAY
	SWABE-ST PETERSBURG	LAL, ORL, OMN, SRQ, PHK, PIE
	ST PETERSBURG-	PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN
	CYPRESS	
Q106	SMELZ-BULZI	LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW
	BULZI-DRABK	AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI
	DRABK-GADAY	MGM, PZD, OTK, JYU, SZW, CEW, SJI
0100		
Q108	GADAY-CLAWZ	MGM, SJI, CEW, JYU, PZD, OTK, MCN, SZW, LGC, TAY, AMG
Q110	THNOR-JAYMC	SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI
	JAYMC-RVERO	VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP
	RVERO-KPASA	OMN, PIE, PBI, SRQ, ORL, LAL
	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK
	GULFR-FEONA	TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM
Q112	DEFUN-HEVVN	PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB
•	HEVVN-INPIN	JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG
Q116	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
Q110	BRUTS-GULFR	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK
0110	GULFR-CEEYA	MCN, AMG, PZD, OTK, SZW, TAY
Q118	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-LENIE	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN
Q501	VIXIS-GOPHER	ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU,
		DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF
	GOPHER-SOBME	FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD
Q502	KENPA-GOPHER	SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW,
•		MSP, MNM, ASP, TVC, GEP, RWF, BRD
	GOPHER-SOBME	FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD
0504	NOTAP-CESNA	
6204	NO IAF-OLSINA	SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC,
	050114 1151451	SAW, GRB, BRD
	CESNA-HEMDI	ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD
Q505	OMAGA-RIMBE	SSM, TVC, ASP, SAW, GRB
	RIMBE-CESNA	SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI
	CESNA-HEMDI	GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

RNAV Routing Pitch and Catch Points

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by pitch (entry into) and catch (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures, preferred IFR routing, or other established routing programs.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes only.

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted.

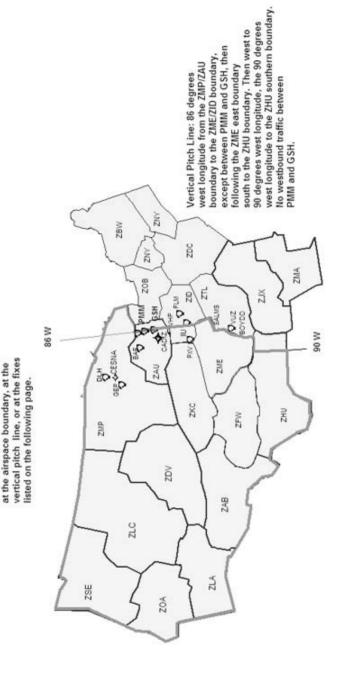
Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: http://sua.faa.gov/sua/Welcome.do. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as preferred IFR routes.

High Altitude Redesign (HAR) Phase One Expansion Airspace

Except as noted, flights entering HAR expansion airspace may pitch



HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports Located Outside HAR Phase I Expansion Airspace

Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing over any of the following pitch points (listed from north to south):

DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, MIF

Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on the associated graphic.

HAR Special High Altitude Pitch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists pitch points for airports within the HAR Phase I expansion airspace.

Albuquerque ABQ, GUP, HANOS or ZUN

Austin ABI, FUZ, JCT, MQP, NAVYS, SJT or TNV

Boca Raton, FL TBIRD KPASA Q118 LENIE

or

TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI

or TBIRD SMELZ Q106 GADAY

Burbank includes GMN, MARKS

Santa Monica

and Van Nuys DAG LAS

HEC EED

or PMD BLH

Chicago Terminal Area IOW, PLL275065, MZV or BAE

Dallas/Fort Worth Terminal Area ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK

ELD, SWB

or

Aircraft destined the Chicago terminal area

Except MDW

EAKER MIDEE BDF BRADFORD-STAR

Or

MLC J105 SGF BDF BRADFORD-STAR

Denver Terminal Area PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, NATTI, ASHBY, BELKE,

CABET, WEEDS, OR BINKE

Fort Lauderdale (or) THNDR KPASA Q118 LENIE

Fort Lauderdale Executive

THNDR KPASA Q116 CEEYA

....

THNDR KPASA Q110 FEONA

or

THNDR SMELZ Q106 GADAY

THNDR SMELZ Q106 BULZI

Houston Bush LIT, EMG, MLC, JCT

or

Aircraft destined Atlanta Terminal Area LCH Q24 PAYTN HONIE-RNAV STAR

or

Aircraft joining J37 to the northeast, BPT GUSTI Q22 CATLN

or

Aircraft joining J42 to the northeast, ELD Q32 J42

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LIT, EMG, MLC, JCT, Houston Hobby

Aircraft joining J42 to the northeast, ELD Q32 J42

Jacksonville, FL TAY

Kansas City Terminal Area TIFTO, CATTS or KENTN

GMN, RZS Los Angeles, includes Ontario or

> DAG LAS TRM EED

or TRM PKE

DOBNE, MOSBI, NICLE, TRALR or ZELOT Las Vegas

Long Beach includes GMN SNS, EHF, LANDO

Orange County

TRM PKE or

TRM EED

Memphis BNA, HAAWK, SALMS or SQS Miami Terminal Area WINCO KPASA Q118 LENIE

> or WINCO KPASA Q116 CEEYA

WINCO KPASA Q110 FEONA

WINCO SMELZ Q106 GADAY

WINCO SMELZ 0106 BULZI

Milwaukee GREAS

Palm Beach, FL

Minneapolis Terminal Area* ONL, ABR, FAR, OBH, OVR, FOD

New Orleans Terminal Area AEX, MEI, SQS, KAPLN Orlando Terminal Area WEBBS BRUTS Q118 LENIE

> or WEBBS GULFR Q116 CEEYA

or or

WEBBS BULZI Q106 GADAY

WEBBS FEONA

or WEBBS BULZI

TBIRD KPASA Q118 LENIE

TBIRD KPASA Q116 CEEYA

TBIRD KPASA Q110 FEONA

TBIRD SMELZ Q106 BULZI

TBIRD SMELZ Q106 GADAY

TRM JOTNU BLD Palm Springs

TRM EED

TRM PKE

CHILY, CIE, CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK Phoenix

Portland, OR PDT, TIMEE Salt Lake City HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS, BPI

TCH J56 CHE

TCH J173 EKR

Saint Louis VIH, MAP, MYERZ, MCM

HLV MCI

FUZ, SJT, MQP, ABI

Aircraft North of LFK, LFK Aircraft South of HUB, ELA

Aircraft South of LFK and North of HUB LCH

San Diego TRM FFD

or

TRM PKF

TRM JOTNU BLD

San Francisco Bay Area GALLI, INSLO, HAROL JSICA Oakland GALLI, INSLO, HAROL JSICA

San Jose GALLI or INSLO

Seattle BLUIT

Southwest Florida Airports

(RSW/FMY)

San Antonio Terminal Area

JOCKS KPASA Q118 LENIE

JOCKS KPASA 0116 CEEYA JOCKS KPASA Q110 FEONA

JOCKS SMELZ Q106 GADAY

JOCKS SMELZ Q106 BULZI

Tampa Terminal Area FEONA, BULZI

BRUTS 0118 LENIE

or

GULFR Q116 CEEYA or BULZI Q106 GADAY

Catch Points for Airports Located Outside HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

Atlanta Terminal Area

Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA

Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVAC

MEM

Aircraft through ZME airspace from ZID airspace west of a line from VHP to

Aircraft through ZME airspace from ZID airspace east of a line from VHP to

BWG, BWG

Aircraft through ZME airspace from ZFW airspace, MEM

MEI HONIE (RNAV)-STAR

PATYN HONIE (RNAV)-STAR

^{*}MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING 466

Baltimore-Washington* GIJ. GEP. FLM. IIU. BAE. VHP. WHETT. BNA or VUZ

Boston* GEP, CRL, ECK, IIU, BNA or VUZ

Buffalo* GEP. CRL Hartford Bradlev* GEP. CRL GIJ, VHP, GEP Canton-Akron* Charlotte BNA. VUZ Cincinnati Terminal Area BNA. PXV

Aircraft north of SLC, JOT

Aircraft over or south of SLC, ENL

SLC or SFO departures, ENL, JOT

Cleveland Terminal Area* OBK

Detroit Terminal Area BAE MKG POLAR-STAR

VHP FWA MIZAR-STAR

Detroit Young VHP FWA

LAN SPRTN-STAR

Indianapolis Terminal Area BIB, SPI, JOT Louisville ENL. MEM

Newark* GEP, VHP, FLM, IIU, BNA, VUZ

IOW GIJ J554 CRL J584 SLT FQM

New York Kennedy* GEP, VHP, FLM, IIU, BNA, VUZ

DBO J94 PMM J70 LVZ LENDY-STAR

New York LaGuardia* GIJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ Philadelphia Terminal Area* GIJ, GEP, VHP, BAE, WHETT, BNA, VUZ

Pittsburgh Terminal Area* VHP, GIJ, BAE, GEP Pontiac LFD, LAN, VHP, FWA, GEP

Providence JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ

Raleigh-Durham FLM, IIU, BNA, VUZ Toronto Terminal Area ECK, SVM, SSM, GEP Teterboro* GEP, VHP, CRL, BNA, VUZ

Washington Dulles/National* GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ

White Plains* GEP, VHP, CRL, FLM, IIU, BNA, VUZ

Willow Run* LAN, LFD, VHP, FWA, GEP

*Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522, Q505, Q504, Q502, Q501

or

Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP

Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

Albuquerque Terminal Area CURLY CURLY-STAR

ESPAN FRIHO-STAR

LAVAN LAVAN-STAR

FTI FRIHO-STAR

MIERA MIERA-STAR

Austin Terminal Area Aircraft west of a north-south line at LFK, BLEWE

Aircraft east of a north-south line at LFK,IDU

LLO

Boca Raton, FL CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR

Aircraft through ZHU remain south of ZME and ZTL airspace

DEFUN 0112 INPIN SHDAY (RNAV)-STAR

Aircraft through ZHU remain south of ZME and ZTL airspace

SZW INPIN SHDAY (RNAV)-STAR

Chicago Midway CVA MOTIF-STAR

PIA MOTIF-STAR

DBQ CVA MOTIF-STAR

LMN MOTIF-STAR

Chicago O'Hare Terminal Area GEP DLL MSN JVL JANESVILLE-STAR

TVC PULLMAN-STAR

FOD DBQ JVL JANESVILLE-STAR

MCW JANESVILLE-STAR

GCK IRK BRADFORD-STAR

Dallas/Fort Worth Terminal Area IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR

Aircraft through ZME airspace from north and west of PXV, RZC, Q23 FSM

Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW

Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS

Aircraft through ZME airspace from J52 and south of J52, SQS

Denver Terminal Area OATHE DANDD-STAR

HGO QUAIL-STAR

LOPEC-STAR

ALS LARKS-STAR

HBU POWDR-STAR

EKR TOMSN-STAR

CHE TOMSN-STAR

BFF LANDR-STAR

LBF SAYGE-STAR

HCT SAYGE-STAR

RSK LARKS-STAR

LAA QUAIL-STAR

GCK J154 RYLIE DANDD-STAR OCS J154 ALPOE RAMMS-STAR

YANKI J114 SNY LANDR-STAR

Aircraft filed BIL or east, MBW RAMMS-STAR

Ft Lauderdale or CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR Ft Lauderdale Executive Aircraft through ZHU airspace remain south ZME and ZTL

airspace

SZW HEVVN 0104 PIE SWAGS (RNAV)-STAR

Houston Bush CRP. CVE. LLO. LUKIY. SAT

Aircraft south and east of LLA, LLA

MISLE Q40 AEX

Aircraft north and east of SJI, SJI

Aircraft east of PXV. PXV 031 DHART SWB

Aircraft north and west of PXV, PROWL Q33 DHART SWB

Houston Hobby CRP, ELLVR, SAT, SWB

or

Aircraft south and east of GIRLY, GIRLY

Aircraft north and east of SJI, SJI

BESOM Q38 ROKIT ROKIT-STAR

Aircraft east of PXV, PXV Q29 HARES SWB

Aircraft north and west of PXV, PROWL Q33 DHART SWB

Jacksonville **GADAY ZOOSS TAY**

Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

ZOOSS TAY

John Wavne-Orange County HEC. PGS. BLD

Aircraft south of TBC from ZAB airspace, HIPPI

Kansas City Terminal Area LMN BRAYMER-STAR

PWE ROBINSON-STAR

EMP JHAWK-STAR

DILCO, LIDAT, IGM Las Vegas

Aircraft over PGA or north of PGA KSINO

Aircraft south of PGA PGS LYNSY

Los Angeles Terminal Area Aircraft North of TBC, HEC, PGS

Aircraft South of TBC from ZAB airspace, HIPPI,

MESSI

CEW DEFUN Q104 CYY DEEDS (RNAV)-STAR Miami Terminal Area

Aircraft through ZHU airspace remain south ZME and ZTL airspace

SZW HEVVN Q104 CYY DEEDS (RNAV)-STAR

Minneapolis Terminal Area Aircraft from north, west, south,

FAR GOPHER-STAR

RWF SKETR-STAR or ALO KASPR-STAR

BRD GOPHER-STAR

BAE EAU CLAIRE-STAR

FOD TWOLF-STAR

Memphis Terminal Area ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD

Naples, FL CEW DEFUN 0104 PLYER PIKKR (RNAV)-STAR

Aircraft through ZHU AIRSPACE remain south of ZME and ZTL

airspace

SZW HEVVN 0104 PLYER PIKKR (RNAV)-STAR

Nashville CCT, GHM, GUITR, TINGS, VOLLS New Orleans Terminal Area BLUEZ, GPT, LCH, MCB, TBD, FATSO

Oakland II A

KATTS PAMMY

Aircraft over or south of a line ILC J16 DVC

REANA KATTS PAMMY

Aircraft from north of ILC, JOPER PAMMY

KATTS PAMMY

Aircraft over or south of ILC, REANA KATTS PAMMY

Orlando Terminal Area GADAY Q108 CLAWZ LEESE-STAR

Aircraft through ZHU airspace remain south of ZME/ZTL

airspace

OTK LEESE-STAR

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Palm Beach, FL CEW DEFUN Q112 INPIN GULLO (RNAV)-STAR

Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

r

SZW INPIN GULLO (RNAV)-STAR

Phoenix CORKR DRK

or

Aircraft from ZDV airspace,

GUP

Aircraft from ZAB airspace,

ZUN, MOHAK, SSO

or

VYLLA TUS

Phoenix Satellites FLG, SSO, MOHAK

or

VYLLA, TUS

Portland, OR Terminal Area ARNIT BONVL-STAR

LARNO BONVL-STAR

or

MOXEE MOXEE-STAR

St. Louis Terminal Area SGF TRAKE-STAR

or

BUM TRAKE-STAR

ANX TRAKE-STAR

r

LMN IRK RIVRS-STAR

RBS VANDALIA-STAR

Salt Lake City Terminal Area JNC J12 HELPR SPANE-STAR

or

EKR MTU SPANE-STAR or

BCE DTA-TCH

or MLF DTA-TCH

or

BVL BONNEVILLE-STAR

or

BYI BEARR-STAR

or

PIH BEARR-STAR

or

DBS BRIGHAM CITY-STAR

or

JAC BRIGHAM CITY-STAR or

BPI BRIGHAM CITY-STAR

or

OCS BRIGHAM CITY-STAR

San Diego Terminal Area EED, LAX, GBN

Santa Ana HEC, PGS, BLD, HIPPI

San Antonio Terminal Area IDU, CSI, JCT, LLO, CRP, LRD

or

West of a north-south line at LFK, BLEWE

10

East of a north-south line at LFK, IDU

San Francisco FMG GOLDEN GATE-STAR

or

MVA MODESTO-STAR

ENI GOLDEN GATE-STAR

or

OAL MODESTO-STAR

or

South of a line ILC to DVC,

REANA KATTS OAL MODESTO-STAR

San Jose FMG HYP EL NIDO-STAR

or

OAL HYP EL NIDO-STAR

or

ENI GOLDEN GATE-STAR

or

South of a line ILC to DVC, REANA KATTS KICHI CANDA EL NIDO-STAR

Seattle Terminal Area Aircraft From northeast, southeast, south,

TEMPL GLASR-STAR

or

SUNED CHINS-STAR

or

BTG OLMYPIA-STAR

Southwest Florida Airports CEW DEFUN Q104 SWABE JOSFF-STAR
RSW and FMY Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

or

SZW HEVVN Q104 SWABE JOSFF-STAR

Tampa Terminal Area CEW DEFUN Q104 HEVVN DARBS-STAR

Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

or

SZW DARBS-STAR

Tucson DRK PXR

or

MOHAK GBN

VFR WAYPOINTS

VISUAL FLIGHT RULES (VFR) WAYPOINTS

VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Charts using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints.

VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag. The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name.

VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

RAITIMORE-WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

BALTIMORE-WASHINGTON TERMINAL AREA CHART/FLYWAY CHART		
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPAXI		N38°34.57′/W076°20.38′
VPONX		N39°06.65′/W076°55.92′
VPOOP		N38°56.32′/W076°36.90′
	BOSTON HELICOPTER CHART	
VPBAY	DOSTON HELIOOFTEN OHANT	N42°16.17′/W070°49.48′
VPBLT		N42°19.67′/W070°53.40′
VPCGS		N42°22.08′/W071°03.13′
VPEVS		N42°23.52′/W071°04.10′
VPFEN		N42°12.58′/W071°08.88′
VPFRE		N42°25.03′/W071°12.32′
VPGVL		N42°21.88′/W070°52.18′
VPHAM		N42°30.13′/W071°07.15′
VPPIK		N42°20.37′/W071°15.93′
VPOUA		N42°12.10′/W071°04.78′
VPQUB		N42°12.60′/W070°59.83′
VPSPF		N42°24.20′/W071°09.47′
VPTOB		N42°31.42′/W070°59.82′
VPWAN	<u> </u>	N42°36.88′/W071°19.45′
	BOSTON TERMINAL AREA CHART	
VPCOH	Cohasset	N42°13.58′/W070°48.94′
VPCUT	Cuttyhunk Harbor	N41°25.50′/W070°55.03′
VPFRA	Framingham Shopping Center	N42°18.16′/W071°23.65′
VPHOL	Woods Hole	N41°31.06′/W070°40.60′
VPHUL	Hull	N42°18.20′/W070°55.30′
VPLPT	Nantucket Great Point	N41°23.41′/W070°02.78′
VPNED	Needham Towers	N42°18.51′/W071°14.64′
VPPEA	Peabody Shopping Center	N42°32.52′/W070°56.69′
VPROC	Rockingham Race Track	N42°46.29′/W071°13.57′
VPSCI	Scituate	N42°11.89′/W070°43.69′
VPTPT	Nantucket Third Point	N41°18.51′/W070°03.37′
VPTUC	Tuckernuck	N41°18.31′/W070°15.43′
VPWAK	Wakefield	N42°30.72′/W071°05.24′
VPWAN	Wang Towers	N42°36.88′/W071°19.45′
	CHARLOTTE SECTIONAL CHART	
VPATO		N34°37.37′/W076°31.47′
VPAVA		N34°57.00′/W077°16.50′
VPBFE		N32°16.38′/W080°47.50′
VPBRA		N36°13.75′/W076°08.08′
VPGCE		N36°03.90′/W076°36.42′
VPGHI		N35°15.30′/W075°31.25′
VPGI0		N35°32.50′/W076°37.33′
VPKJU		N35°26.58′/W076°10.22′
VPLMN		N34°55.43′/W077°46.42′
VPMAB		N34°42.20′/W077°03.50′
VPNPO	ISLE OF PALMS	N32°47.78′/W079°46.45′
VPOKY		N35°06.53′/W075°59.17′
VPREP		N32°33.98′/W080°21.82′
VPRRS		N33°25.45′/W079°07.60′
VPUMO		N35°35.63′/W075°28.08′
VPWZ0		N36°00.87′/W075°40.07′
VPZIE		N32°01.62′/W080°53.42′

CHICAGO SECTIONAL CHART

	CHICAGO SECTIONAL CHA	ART .
WAYPOINT IDENT VPCOH	COLLOCATED VFR CHECKPOINT	LOCATION N31°49.35′/W081°51.07′
	DENVER TERMINAL AREA CHART/FL	YWAY CHART
VPBEN		N39°44.28′/W104°26.00′
VPFTG		N39°44.35′/W104°32.75′
VPNIC	NORTH INTERCHANGE	N39°58.90′/W104°59.27′
	HOUSTON TERMINAL AREA CHART/FL	YWAY CHART
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPBWY		N29°46.25′/W095°09.24′
VPDTN		N29°46.59′/W095°22.01′
VPGLA		N30°08.32′/W095°06.62′
VPGLB		N30°07.80′/W094°55.70′
VPKTY		N29°47.05′/W095°44.92′
VPPLN		N30°08.80′/W095°50.42′
VPRSN		N29°30.00′/W095°41.00′
VPSND		N29°23.13′/W095°28.86′
VPSNT		N29°49.29′/W094°53.94′
VPTNE		N29°47.48′/W095°03.34′
VPTNW		N29°47.06′/W095°33.81′
VPTRK		N29°24.06′/W095°10.44′
	JACKSONVILLE SECTIONAL C	HART
VPAFI		N31°49.35′/W081°51.07′
VPAFY		N30°07.00′/W081°21.33′
VPBEC		N29°46.25′/W081°15.10′
VPCJA		N29°30.00′/W081°06.00′
VPCKY		N28°46.50′/W082°34.00′
VPCNY		N28°30.00′/W080°45.00′
VPDAD	DADE CITY	N28°22.57′/W082°11.25′
VPDAR		N31°22.38′/W081°24.13′
VPDFI		N29°00.17′/W081°20.85′
VPDUT		N27°37.70′/W082°09.10′
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′
VPEGV		N29°39.97′/W081°24.87′
VPFFU		N28°57.08′/W081°00.33′
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′
VPHAA	011212 82.1011	N30°04.02′/W083°40.02′
VPHUC		N28°19.87′/W082°43.77′
VPIWA	MIDWAY	N31°48.33′/W081°25.85′
VPJMY		N29°26.92′/W081°18.27′
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′
VPLEV		N28°48.00′/W080°52.00′
VPLJA		N29°00.00′/W080°51.00′
VPMAI		N30°50.02′/W084°56.63′
VPTLH		N30°32.70′/W083°52.22′
VPXZY		N29°35.00′/W083°10.00′
VPYIW		N30°42.28′/W081°27.25′
VPZIE		N32°01.62′/W080°53.42′
KANSAS CITY SECTIONAL CHART		
VPAGO		N37°50.33′/W090°29.03′
VPBEK		N37°15.07′/W092°30.67′
VPDEN		N37°46.75′/W092°19.20′
VPENE		N37°44.75′/W091°55.78′
VPESS		N36°59.48′/W091°00.88′
VPFME		N37°41.00′/W092°38.33′
VPGXY		N37°15.50′/W091°40.17′
VPMBE		N37°11.08′/W090°27.92′
VPMKE		N37°11.08′/W090°27.92 N37°24.47′/W092°40.00′
VPROV		N38°01.72′/W091°12.81′
VPUTT		N37°52.05′/W092°01.20′
***************************************		1437 32.03 / 44032 01.20

474 VFR WAYPOINTS

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION N37°18.03′/W092°18.63′
VPWRO		N37 18.03 /W092 18.63 N37°39.12′/W091°45.68′
VPXIZ		N37°26.60′/W092°05.42′
	KANSAS CITY TERMINAL ARE	EA CHART
VPATN	ATCHISON	N39°33.62′/W095°07.65′
VPBGS	BLUE SPRINGS	N39°01.82′/W094°16.32′
VPBSP	BONNER SPRINGS	N39°03.78′/W094°53.10′
VPCHB	CHOUTEAU BRIDGE	N39°08.77′/W094°32.03′
VPDSO	DE SOTO	N38°58.68′/W094°58.48′
VPESG	EXCELSIOR SPRINGS	N39°20.68′/W094°13.77′
VPGTB	GARRETSBURG	N39°40.92′/W094°41.45′
VPLAT	LATHROP WATER TANK	N39°32.87′/W094°20.00′
VPLEN	LENEXA	N38°57.77′/W094°43.68′
VPLVL	LONGVIEW LAKE	N38°54.63′/W094°28.28′
VPMCL	MC LOUTH	N39°11.65′/W095°12.50′
VPNHA	NASHUA	N39°17.83′/W094°34.80′
VPSCX	SPORTS COMPLEX	N39°03.00′/W094°29.02′
VPSKR	SUGAR CREEK REFINERY	N39°07.00′/W094°27.02′
VPSPK	SWOPE PARK	N39°00.47′/W094°31.93′
VPTSK	TWIN STACKS	N39°09.05′/W094°38.22′
VPWOF	WORLDS OF FUN	N39°10.42′/W094°29.12′
	KLAMATH FALLS SECTIONAL	L CHART
VPORO		N43°57.38′/W123°02.22′
	LOS ANGELES HELICOPTER	CHART
VPANA		N33°44.43′/W117°50.03′
VPART	MAGNOLIA	N33°51.45′/W117°58.92′
VPAUT	HWY 91 & 55	N33°50.63′/W117°49.57′
VPBOB		N33°59.60′/W117°21.45′
VPCAR		N33°49.90′/W118°17.23′
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′
VPCOR		N33°52.90′/W117°32.95′
VPCRX		N34°01.40′/W117°44.88′
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′
VPDOW		N33°56.47′/W118°05.80′
VPELA		N34°00.98′/W118°10.35′
VPETY		N33°38.70′/W117°44.12′
VPFCB		N34°02.03′/W118°01.63′
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71′/W119°10.39′
VPGOL		N34°09.33′/W118°17.37′
VPIMP		N33°55.85′/W118°16.85′
VPKAT		N33°48.23′/W117°54.22′ N34°03.92′/W117°48.40′
VPKEL VPLAC		N34°03.92 /W117°48.40 N34°03.75′/W118°14.93′
VPLLU		N34 03.75 /W116 14.93 N34°03.85'/W117°17.82'
	OUEEN MARY	N33°45.17′/W118°11.37′
VPLQM VPLRT	QUEEN MARY SANTA ANITA RACE TRACK	N34°08.45′/W118°02.65′
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97′/W118°16.32′
VPMDR	VINCENT THOMAS BRIDGE	N33°59.27′/W118°23.97′
VPNEW	NEWHALL PASS	N34°20.18′/W118°30.72′
VPNUY	NEWHALL PAGG	N34 20.18 / W116 30.72 N34°09.63'/W118°28.18'
VPPCH		N33°28.07′/W117°40.32′
VPPKC		N34°03.32′/W118°12.83′
VPPOR		N34°00.10′/W117°50.12′
VPRRT		N33°59.37′/W118°16.83′
VPSEP		N34°05.80′/W118°28.63′
VPSFR		N34°17.45′/W118°28.07′
VPSTC	SATICOY BRIDGE	N34°16.62′/W119°08.34′
VPSTK		N34°13.97′/W118°24.60′
		, , , , , , , , , , , , , , , , , , , ,

N26°28.30′/W080°26.75′

N25°50.67'/W080°55.18'

N25°22.92'/W080°36.58'

N27°03.00′/W080°35.00′

VFR WAYPOINTS Los angeles sectional chart

LOS ANGELES SECTIONAL CHART		
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71′/W119°10.39′
VPSTC	SATICOY BRIDGE	N34°16.62′/W119°08.34′
	LOS ANGELES TERMINAL AREA CHART	/FLYWAY CHART
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′
VPGTY	GETTY CENTER	N34°04.84′/W118°28.66′
VPLBP	BANNING PASS	N33°56.05′/W116°59.63′
VPLCC	CHAFFEY COLLEGE	N34°08.87′/W117°34.33′
VPLCP	CAJON PASS	N34°18.07′/W117°27.68′
VPLDL	DISNEYLAND	N33°48.72′/W117°55.13′
VPLDP VPLDS	DANA POINT DODGER STADIUM	N33°27.62′/W117°42.87′ N34°04.42′/W118°14.42′
VPLEX	91/605 INTERCHANGE	N33°52.38′/W118°06.08′
VPLGP	GRIFFITH PARK OBSERVATORY	N34°07.10′/W118°18.02′
VPLHF	110/405 FWYS	N33°51.42′/W118°17.10′
VPLHP	HUNTINGTON PIER	N33°39.32′/W118°00.25′
VPLKH	KING HARBOR	N33°50.75′/W118°23.88′
VPLLC	L.A. COLISEUM	N34°00.83′/W118°17.27′
VPLLM	LAKE MATHEWS	N33°50.58′/W117°26.85′
VPLMM	MAGIC MOUNTAIN	N34°26.20′/W118°36.28′
VPLMS	MILE SQUARE PARK	N33°43.40′/W117°56.77′
VPLPD	PRADO DAM	N33°53.40′/W117°38.48′
VPLPP	PACIFIC PALISADES	N34°02.13′/W118°32.15′
VPLQM	QUEEN MARY	N33°45.17′/W118°11.37′
VPLRB	ROSE BOWL	N34°09.67′/W118°10.05′
VPLRT	SANTA ANITA RACE TRACK	N34°08.45′/W118°02.65′
VPLSA	SANTA ANA CANYON	N33°52.03′/W117°42.68′
VPLSB VPLSC	SANTA FE FLOOD BASIN STATE COLLEGE	N34°07.72′/W117°57.30′ N33°52.97′/W117°53.13′
VPLSF	SAN FERNANDO RESERVOIR	N33 52.97 /W117 53.13 N34°17.87'/W118°29.00'
VPLSP	SIGNAL PEAK	N33°36.33′/W117°48.63′
VPLSR	HAWTHORNE & 405 FREEWAY	N33°53.07′/W118°21.13′
VPLSS	SANTA SUSANA PASS	N34°16.00′/W118°38.43′
VPLTW	TUJUNGA WASH & FOOTHILL	N34°16.40′/W118°20.30′
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97′/W118°16.32′
VPLWT	WATER TANK	N34°10.82′/W118°46.27′
VPNEW	NEWHALL PASS	N34°20.18′/W118°30.72′
VPSTC	SATICOY BRIDGE	N34°16.62′/W119°08.34′
	MIAMI SECTIONAL CHA	RT
VPACH	HOLLYWOOD BEACH	N26°00.92′/W080°06.93′
VPBOV		N27°57.00′/W080°46.75′
VPCLE		N26°27.07′/W082°00.88′
VPCTE		N26°09.28′/W081°20.70′
VPDAD	DADE CITY	N28°22.57′/W082°11.25′
VPDUT		N27°37.70′/W082°09.10′
VPDZE		N27°19.00′/W080°44.17′
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′
VPEDY VPFAH	ANDYTOWN TOLLGATE	N26°08.78′/W080°28.00′
VPFAH VPGPE	ST PETE BEACH	N26°25.40′/W081°29.67′ N27°43.50′/W082°44.67′
VPGPE VPHRO	SI PETE DEACH	N27°43.50′/W082°44.67′ N27°05.97′/W082°12.20′
VPHRO		N27'05.97 /W082'12.20 N28°19.87'/W082°43.77'
VPIBR		N27°12.47′/W081°40.22′
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′
VPKOE		N24°40.08′/W081°20.55′
VPLYY		N24°49.07′/W080°49.17′
VPMBO	GULFSTREAM PARK	N25°58.57′/W080°08.17′
1/0004	DUMPING STATION	. ,

PUMPING STATION

RANGER STATION

VPOBA

VPRBI

VPRNL

VPWMO

MIAMI TERMINAL AREA CHART/FLYWAY CHART

IVI	IAMI TERMINAL AREA GHART/TETWAT G	IIANI
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPACH	HOLLYWOOD BEACH	N26°00.92′/W080°06.93′
VPEDY	ANDYTOWN TOLLGATE	N26°08.78′/W080°28.00′
VPMBO	GULFSTREAM PARK	N25°58.57′W080°08.17′
VPOBA	PUMPING STATION	N26°28.30′/W080°26.75′
VPRBI	DANIOED OTATION	N25°50.67′/W080°55.18′
VPRNL	RANGER STATION	N25°22.92′/W080°36.58′
	NEW ORLEANS SECTIONAL CHART	
VPGPT		N30°25.95′/W089°05.62′
VPLIP	PHILLIPS INLET	N30°16.23′/W085°59.25′
VPMAI		N30°50.02′/W084°56.63′
VPMOB		N30°23.00′/W088°31.72′
VPRAM		N30°18.95′/W089°35.88′
VPRER		N30°13.87′/W085°20.67′
VPRIV		N30°54.85′/W087°57.82′
VPSAW		N30°49.65′/W089°07.42′
VPTHR		N30°19.93′/W087°08.50′
	NEW YORK HELICOPTER CHART	
VPJAY		N40°59.00′/W073°07.00′
VPLYD		N40°57.37′/W073°29.59′
VPROK		N40°52.70′/W073°44.24′
PHO	DENIX TERMINAL AREA CHART/FLYWAY	CHART
VPALL	ALLENVILLE	N33°20.97′/W112°35.20′
VPAQU	AQUEDUCT PUMPING STATION	N33°40.05′/W112°41.38′
VPARM	ARROWHEAD MALL	N33°38.52′/W112°13.48′
VPAWG	AHWATUKEE GOLF COURSE	N33°19.98′/W111°59.08′
VPAZM	ARIZONA MILLS	N33°23.43′/W111°57.88′
VPBAR	BARTLETT DAM	N33°49.10′/W111°37.92′
VPCCC	COUNTRY CLUB & CANAL	N33°30.73′/W111°50.37′
VPCNL	CANAL	N33°33.23′/W111°46.89°
VPFRB	FIREBIRD LAKE	N33°16.35′/W111°58.10′
VPFTN	FOUNTAIN HILLS	N33°36.12′/W111°42.72′
VPGLX	GILA CROSSING	N33°16.55′/W112°10.08′
VPGPP	GLENDALE POWER PLANT	N33°33.27′/W112°13.00′
VPMAR	MARICOPA	N33°03.42′/W112°02.88′
VPMHS	MESQUITE HIGH SCHOOL	N33°20.53′/W111°49.58′
VPNRV	NEW RIVER	N33°55.08′/W112°08.45′
VPNTT	NORTH TEST TRACK	N33°03.50′/W111°55.83′
VPPIR	PIR	N33°22.52′/W112°18.90′
VPQTR VPRVC	QUINTERO GOLF COURSE RIO VERDE COMMUNITY	N33°49.53′/W112°23.58′ N33°44.37′/W111°39.62′
VPSMC	SOUTH MOUNTAIN COLLEGE	N33°23.02′/W112°02.12′
VPSOP	SQUAW PEAK	N33°32.83′/W112°01.27′
VPSSS	SUPERSTITION SPRINGS MALL	N33°23.50′/W111°41.37′
VPSTN	SANTAN MOUNTAINS	N33°09.23′/W111°40.92′
VPSTT	SOUTH TEST TRACK	N32°56.25′/W111°59.67′
VPZZZ		N33°20.18′/W111°26.53′
ST	LOUIS TERMINAL AREA CHART/FLYWAY	CHART
VPAGN	TV ANTENNA	
VPAGN VPBPE	IV ANTENNA	N38°32.08′/W090°22.42′ N38°23.80′/W090°20.38′
VPCJY	HOLIDAY SHORES	N38°55.00′/W089°56.00′
VPCOJ	WINFIELD DAM	N39°00.28′/W090°41.23′
VPDFA	JEFFERSON BARRACKS BRIDGE	N38°29.18′/W090°16.47′
VPEAZ	BUSCH STADIUM	N38°37.43′/W090°11.55′
VPEDZ	WATER TANKS	N38°45.30′/W090°34.87′
VPEGR	GAS TANKS	N38°35.80′/W090°19.32′
VPEOX	ST PETERS	N38°47.17′/W090°39.25′
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WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPFAI	HOWELL ISLAND	N38°40.00′/W090°43.00′
VPFFY		N38°55.37′/W090°17.30′
VPGPF		N38°35.60′/W090°26.92′
VPGVI		N38°32.30′/W090°27.80′
VPHRQ	CHAIN OF ROCKS BRIDGE	N38°45.88′/W090°10.42′
VPIBO	WATERLOO	N38°20.00′/W090°09.00′
VPJMU	HORSESHOE LAKE	N38°41.00′/W090°05.00′
VPKNY	PACIFIC	N38°29.00′/W090°44.00′
VPLES	ST CHARLES	N38°47.00′/W090°30.00′
VPLIW	SIX FLAGS	N38°30.67′/W090°40.47′
VPLXU	GATEWAY ARCH	N38°37.50′/W090°11.00′
VPNSY	WOOD RIVER REFINERIES	N38°50.00′/W090°05.00′
VPNZY	WENTZVILLE	N38°48.83'/W090°50.98'
VPRAZ	JERSEYVILLE	N39°07.00′/W090°20.00′
VPRMO	FOREST PARK	N38°38.00′/W090°17.00′
VPWKO	COLUMBIA	N38°27.00′/W090°12.00′
VPXXI	MILLSTADT	N38°27.50′/W090°05.68′
VPYID	MOSENTHEIN ISLAND	N38°43.00′/W090°12.25′

SALT LAKE CITY HELICOPTER CHART

		•
VPAIR	SALTAIR	N40°44.85′/W112°11.22′
VPBEE	SOUTH INTERCHANGE	N40°38.18′/W111°54.23′
VPBRN	BARN	N40°54.28′/W112°10.15′
VPCAP	STATE CAPITOL	N40°46.67′/W111°53.25′
VPCHS		N40°42.28′/W112°05.92′
VPCOP	BINGHAM COPPER MINE	N40°31.38′/W112°09.00′
VPCWY	CAUSEWAY	N41°05.37′/W112°07.17′
VPCYN	PARLEYS CANYON	N40°42.67′/W111°48.10′
VPFPC	FREE PORT CENTER	N41°05.92′/W112°02.27′
VPFPK	FRANCIS PEAK	N41°01.98′/W111°50.30′
VPGFS	GARFIELD STACK	N40°43.28′/W112°11.88′
VPHVE	SPAGHETTI BOWL	N40°43.50′/W111°54.22′
VPJRT	JORDAN RIVER TEMPLE	N40°35.02′/W111°55.58′
VPKSL	KSL ANTENNA	N40°46.80′/W112°05.80′
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08′/W111°53.57′
VPMDH	MCKAY DEE HOSPITAL	N41°11.50′/W111°57.08′
VPMMT	MICROWAVE TOWERS	N40°48.50′/W111°53.37′
VPMSH		N41°01.67′/W112°02.47′
VPNSL		N40°50.15′/W111°54.90′
VPNTP		N41°03.57′/W112°14.23′
VPOGE	GRAIN ELEVATOR	N41°13.13′/W112°00.45′
VPOPS	POWER STATION	N41°20.38′/W112°02.78′
VPPEN	STATE PRISON	N40°29.88'/W111°53.62'
VPPPT	PROMONTORY POINT	N41°12.28′/W112°25.73′
VPPTM	POINT OF THE MOUNTAIN	N40°27.42′/W111°54.83′
VPPVO	PROVO CANYON	N40°18.77′/W111°39.45′
VPRWY		N40°48.48′/W112°00.33′
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83′/W111°54.85′
VPTIP	SOUTH TIP	N40°50.93′/W112°10.92′
VPWBR	WEBER CANYON	N41°08.17′/W111°54.83′
VPWBT		N40°38.00′/W112°03.33′

SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

VPAIR	SALTAIR	N40°44.85′/W112°11.22′
VPBEE	SOUTH INTERCHANGE	N40°38.18′/W111°54.23′
VPBRN	BARN	N40°54.28′/W112°10.15′
VPCAP	STATE CAPITOL	N40°46.67′/W111°53.25′
VPCHS		N40°42.28′/W112°05.92′
VPCOP	BINGHAM COPPER MINE	N40°31.38′/W112°09.00′
VPCVI	CENTERVILLE INTERCHANGE	N40°55.30′/W111°53.43′
VPCWY	CAUSEWAY	N41°05.37′/W112°07.17′
VPCYN	PARLEYS CANYON	N40°42.67′/W111°48.10′
VPFPC	FREE PORT CENTER	N41°05.92′/W112°02.27′
VPFPK	FRANCIS PEAK	N41°01.98′/W111°50.30′
VPGFS	GARFIELD STACK	N40°43.28′/W112°11.88′

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPHVE	SPAGHETTI BOWL	N40°43.50′/W111°54.22′
VPJRT	JORDAN RIVER TEMPLE	N40°35.02′/W111°55.58′
VPKSL	KSL ANTENNA	N40°46.80′/W112°05.80′
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50′/W111°57.08′
VPMMT	MICROWAVE TOWERS	N40°48.50′/W111°53.37′
VPMSH		N41°01.67'/W112°02.47'
VPNSL		N40°50.15'/W111°54.90'
VPNTP		N41°03.57'/W112°14.23'
VPOGE	GRAIN ELEVATOR	N41°13.13′/W112°00.45′
VPOPS	POWER STATION	N41°20.38′/W112°02.78′
VPPEN	STATE PRISON	N40°29.88'/W111°53.62'
VPPPT	PROMONTORY POINT	N41°12.28′/W112°25.73′
VPPTM	POINT OF THE MOUNTAIN	N40°27.42′/W111°54.83′
VPPVO	PROVO CANYON	N40°18.77′/W111°39.45′
VPRWY		N40°48.48'/W112°00.33'
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83'/W111°54.85'
VPTIP	SOUTH TIP	N40°50.93'/W112°10.92'
VPUOU	U OF U EVENTS CENTER	N40°45.73′/W111°50.28′
VPWBR	WEBER CANYON	N41°08.17'/W111°54.83'
VPWBT		N40°38.00′/W112°03.33′
VPZ00	HOGLE ZOO	N40°45.00′/W111°48.95′

SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

VPLDP	DANA POINT	N33°27.62′/W117°42.87′
VPLSP	SIGNAL PEAK	N33°36.33′/W117°48.63′
VPOCN		N33°14.15′/W117°26.63′
VPSBC	BARONA CASINO	N32°56.25′/W116°52.60′
VPSBL		N33°05.18′/W117°18.55′
VPSBM	BLACK MOUNTAIN	N32°58.87'/W117°07.00'
VPSCF		N32°48.55′/W117°09.17′
VPSCM	COWLES MOUNTAIN	N32°48.72′/W117°01.97′
VPSCP	CRYSTAL PIER	N32°47.77′/W117°15.42′
VPSCR		N32°39.37′/W117°07.30′
VPSFB	IRON MOUNTAIN	N32°58.25′/W116°57.33′
VPSLJ	LAKE JENNINGS	N32°51.53′/W116°53.28′
VPSMB		N32°45.57′/W117°12.22′
VPSMP		N33°22.70′/W117°36.75′
VPSMS	MOUNT SOLEDAD	N32°50.40′/W117°15.10′
VPSMV		N32°45.75′/W117°09.80′
VPSMW	MOUNT WOODSON	N33°00.52′/W116°58.23′
VPSOP	OTAY MESA PRISON	N32°35.82′/W116°55.28′
VPSOT	LOWER OTAY LAKE	N32°37.73′/W116°55.38′
VPSPL	SOUTH POINT LOMA	N32°39.90′/W117°14.55′
VPSPP	POWER PLANT	N33°08.25′/W117°20.23′
VPSQS	QUALCOMM STADIUM	N32°46.98′/W117°07.23′
VPSRT	DEL MAR RACE TRACK	N32°58.58′/W117°15.95′
VPSSM	SAN MIGUEL MOUNTAIN	N32°41.78′/W116°56.18′
VPSSV	SAN VICENTE ISLAND	N32°55.53′/W116°55.00′
VPSTP	TORREY PINES GOLF COURSE	N32°54.17′/W117°14.68′
VPSVA		N33°11.48′/W117°16.38′

SAN FRANCISCO SECTIONAL CHART

VPKBG KINGSBURY GRADE N38°58.75′/W119°53.20′

SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

VPALT	ALTAMONT PASS	N37°44.35′/W121°35.42′
VPANT	ANTIOCH BRIDGE	N38°01.45′/W121°45.02′
VPBBR	BENICIA BRIDGE	N38°02.50′/W122°07.45′
VPCAL	CALAVERAS RESERVOIR	N37°28.16′/W121°48.93′
VPCBT	LAKE CHABOT	N37°43.68′/W122°06.94′
VPCOY	COYOTE HILLS	N37°32.50′/W122°05.06′
VPCQZ	CARQUINEZ BRIDGE	N38°03.66′/W122°13.52′
VPCRL		N37°11.00′/W121°41.06′
VPCRY	CRYSTAL SPRINGS CAUSEWAY	N37°30.56′/W122°21.10′

SE, 17 DEC 2009 to 11 FEB 2010

VFR WAYPOINTS

VI K WALL SIMIS		
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCSH	CAL STATE UNIVERSITY	N37°39.52′/W122°03.52′
VPDAM	DEL VALLE DAM	N37°36.91′/W121°44.78′
VPDLR		N37°07.00′/W121°47.06′
VPDUB	DUBLIN	N37°42.06′/W121°55.36′
VPEMB	EMBASSY SUITES	N37°26.05′/W121°53.83′
VPGGF	GOLDEN GATE FIELDS	N37°53.07′/W122°18.71′
VPGIL	GILROY	N37°01.37′/W121°33.99′
VPHHH	HAMILTON	N38°03.58′/W122°30.66′
VPKG0	KGO	N37°31.58′/W122°06.10′
VPLEX	LEXINGTON RESERVOIR	N37°11.66′/W121°59.18′
VPMID	MID-SPAN SAN MATEO BRIDGE	N37°36.28′/W122°11.81′
VPMOR	MORMON TEMPLE	N37°48.46′/W122°11.95′
VPNUM	NUMMI PLANT	N37°29.56′/W121°56.58′
VPPAC		N37°38.00′/W122°32.07′
VPPRU	PRUNEYARD	N37°17.33′/W121°56.01′
VPSAR	SARATOGA	N37°15.26′/W122°02.33′
VPSLA	SLAC/LINEAR ACCELERATOR	N37°24.75′/W122°14.35′
VPSTB	STINSON BEACH	N37°54.45′/W122°40.41′
VPSUN	SUNOL GOLF COURSE	N37°34.85′/W121°53.23′
VPUTC	U.T.C.	N37°13.93′/W121°41.35′
VPWAL	WALNUT CREEK	N37°53.78′/W122°04.30′
VPWAM		N37°30.28′/W122°10.00′
VPWFR	CEMENT PLANT	N37°30.88′/W122°12.26′
	TAMPA/ORLANDO TERMINAL AREA CHAR	RT/FLYWAY CHART
VPBOV		N27°57.00′/W080°46.75′
VPCNY		N28°30.00′/W080°45.00′
VPDAD	DADE CITY	N28°22.57′/W082°11.25′
VPDFI		N29°00.17′/W081°20.85′
VPDUT		N27°37.70′/W082°09.10′
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′
VPFFU		N28°57.08′/W081°00.33′
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′
VPHUC		N28°19.87′/W082°43.77′
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′
VPLEV		N28°48.00′/W080°52.00′

WASHINGTON SECTIONAL CHART

N29°00.00'/W080°51.00'

VPACE	 N38°07.82′/W076°48.75′
VPAXI	 N38°34.57′/W076°20.38′
VPBRA	 N36°13.75′/W076°08.08′
VPGCE	 N36°03.90′/W076°36.42′
VPWZO	 N36°00.87′/W075°40.07′

VPLJA

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VOR RECEIVER CHECK

VOR RECEIVER CHECKPOINTS AND VOR TEST FACILITIES (VOT)

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual. Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300 or 1000–3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

ALABAMA VOR RECEIVER CHECKPOINTS

Facil	lity Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Broo	okley (Mobile Downtown)	112.8/BFM	G	313	1.68	On runup area for rwy 14. VOR grand receiver checkpoint OTS indef.
Cair	ns AAF (Fort Rucker)	111.2/OZR	G	066	1.0	On runup pad Twy F.
Ente	erprise Muni	116.6/EDN	A/2000	341	7.4	Red/white twr.
Mon	roeville (Monroe Co Arpt)	116.8/MVC	G	196	0.6	Rwy 03 runup area/turnaround pad.
Mon	tgomery (Montgomery Rgnl/					
l Da	annelly Field)	112.1/MGM	G	318	6.2	On Twy C north of Twy A.
Talla	adega Muni	108.8/TDG	A/2000	084	9.0	Over center of segmented circle.
Crim	nson (Tuscaloosa Rgnl)	117.8/LDK	G	238	4.2	On centerline of Twy midway between ramp and rwy.

VOR TEST FACILITIES (VOT)

Facility Name		Type VOT	
(Airport Name)	Freq.	Facility	Remarks
Birmingham-Shuttlesworth Intl	110.0	G	

Huntsville Intl-Carl T Jones Fld 111.0

FLORIDA VOR RECEIVER CHECKPOINTS

		Type			
		Check	Azimuth	Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Cypress (Naples Muni)	108.6/CYY	G	121	0.6	On runup area Rwy 32.
Crestview (Bob Sikes)	115.9/CEW	A/1200	106	8.6	Over rotating bcn.
Lakeland Linder Rgnl	116.0/LAL	G	038	0.5	On NE end of Twy C.
	116.0/LAL	G	283	1.1	On Twy A-1.
Melbourne Intl	110.0/MLB	G	184	0.6	SW corner of arpt at intersection of Twy C and D.
Ocala Intl-Jim Taylor Fld	113.7/OCF	G	167	1.0	On taxiway E adjacent to E9.
Orlando (Executive)	112.2/ORL	G	324	.5	On Twy E near AER 13.
		G	311	.5	On Twy H near AER 13.
Pahokee (Palm Beach Co Glades)	115.4/PHK	A/1500	022	13	Over radio twr at intersection of 2 canals.
Panama City-Bay Co Intl	114.3/PFN	G	190	0.5	Main terminal ramp.

Remarks

Unuseable E of Twy F.

		Type Check Pt. Gnd.	Azimuth from Fac.	Dist. from Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
		G	154	0.6	Rwy 32 run-up/Twy G.
		G	208	0.6	Rwy 5 run-up/Twy D.
St. Petersburg-Clearwater Intl	116.4/PIE	G	046	0.4	On circle located NE end of Twy M.
Vero Beach Muni	117.3/VRB	G	111	4.4	Runup area Rwy 29R.
	-,	G	114	4	Compass rose on taxiway E.
		G	116	3.6	Runup area Rwy 11R.
V	OR TEST FA	CILITIES	(VOT)		
Facility Name		Type VOT			

Facility Name	Type VOT				
(Airport Name)	Freq.	Facility			
Daytona Beach Intl	111.0	G			
Jacksonville Intl	111.0	G			
Miami Intl	112.0	G			
Palm Beach Intl	109.0	G			
Tallahassee Rgnl	111.0	G			
Tamna Intl	111 0	G			

GEORGIA

VOR RECEIVER CHECKPOINTS

		Type	0		
		Check	Azimuth	Dist.	
		Pt.	from	from	
	- "	Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Athens (Madison Muni)	109.6/AHN	A/2000	199	21	Over center of rwy.
Athens (Athens/Ben Epps)	109.6/AHN	G	284	0.5	Twy A2.
Atlanta (Dekalb-Peachtree)	116.6/PDK	G	004	0.5	On runup area Rwy 20L. VOR ground checkpoint unavailable.
		G	218	0.5	On runup area Rwys 02L and 02R.
Brunswick (Malcolm McKinnon)	109.8/SSI	A/1050	029	7.2	Over rotating bcn.
Columbus Metropolitan	117.1/CSG	G	146	7.1	FBO ramp in front of ASOS equipment.
Dublin (W H 'Bud' Barron)	113.1/DBN	G	270	7.6	Ramp.
Foothills (Toccoa RG Letourneau Fld)	113.4/ODF	A/2000	179	6	Over rotating bcn.
Hunter	111.6/SVN	A/1500	090	15.5	Over lighthouse.
Hunter AAF	111.6/SVN	G	271	1.2	On Twy 6.
Lawson AAF	111.4/LSF	G	356	.6	On painted circle at
					taxiway intersection 580' NW of twr.
Macon	114.2/MCN	A/2000	028	13.6	Over oil tank.
		A/2000	320	9.5	Over dam.
Pecan (Southwest Georgia Rgnl)	116.1/PZD	A/1000	145	9	Over rotating bcn E side of arpt.
Rome (Richard B Russel)	115.4/RMG	G	348	11.5	At intersection of twy 200' S of terminal building. VOR ground checkpoint unavailable.
Savannah	112.7/SAV	A/1500	097	19.6	Over red and white lighthouse.
Valdosta Rgnl	114.8/OTK	G	131	0.6	On taxiway at apch end rwy 35.
Vienna (Crisp County-Cordele)	116.5/VNA	A/1300	226	19	Over center of NE/SW rwy.
Waycross-Ware Co	110.2/AYS	A/1200	099	8	Over fire twr W side arpt.

VOR RECEIVER CHECK VOR TEST FACILITIES (VOT)

Facility Name		Type VOT	
(Airport Name)	Freq.	Facility	Remarks
Atlanta (Hartsfield-Jackson Atlanta Intl)	111.0	G	
(Atlanta Muni)	111.0	G	VOT OTS indef.
Brunswick Golden Isles	111.0	G	
Savannah /Hilton Hoad Intl	111 0	G	

KENTUCKY

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Central City (Muhlenberg Co)	109.8/CCT	A/2500	153	10.6	Over intersection of Rwy 23 and central taxiway.
Clarksville (Campbell AAF)	110.6/CKV	G	307	4.9	On taxiway 6 center romeo helipad.
Clarksville (Hopkinsville-Christian Co)	110.6/CKV	A/2000	345	13.5	Over hangar.
Fort Knox (Godman AAF)	109.6/FTK	A/2000	270	9.2	W of Godman AAF over a 298 ft twr.
Frankfort (Capital City)	109.4/FFT	G	082	.7	Runup pad Rwy 24.
Fld)	116.1/LOZ	G	033	3.8	On parking ramp taxiway entry.
Owensboro-Daviess Co	108.6/OWB	G	176	.7	On taxiway at apch end Rwy 36.

VOR TEST FACILITIES (VOT)

Facility Name		Type VOT	
(Airport Name)	Freq.	Facility	Remarks
Louisville Intl-Standiford Fld	111.0	G	

VOR RECEIVER CHECK NORTH CAROLINA

VOR RECEIVER CHECKPOINTS

		Type			
		Check	Azimuth	Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Barretts Mountain (Hickory Rgnl)	110.8/BZM	A/2200	229	10.2	Over apch end Rwy 24.
Cofield (Tri-Co)	114.6/CVI	A/4500	259	15.3	Distance 20/25.
Fayetteville Rgnl/Grannis Fld	108.8/FAY	G	278	0.6	On runup area Rwy 04.
Greensboro (Lexington Muni)	116.2/GS0	A/2300	228	22	Over rotating bcn atop W end of building.
Greensboro (Piedmont Triad Intl)	116.2/GS0	G	036	3.5	On Twy M3. Checkpoint OTS indef.
Greensboro (Smith Reynolds)	116.2/GSO	A/2000	297	13.5	Over atct.
Kinston Rgnl Jetport At Stallings Fld	109.6/IS0	G	230	3.1	Twy A between A4 and A5.
Raleigh-Durham Intl	117.2/RDU	G	244	0.85	At end of taxiway to Rwy 05R.
Sugarloaf Mountain (Asheville Rgnl)	112.2/SUG	A/3200	280	13.6	Over atct. Airborne checkpoint unusable indef.
Tar River	117.8/TYI	A/1500	260	5.8	Over smoke stack at power house.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Charlotte (Charlotte/Douglas Intl)	112.0 110.0	G G	

SOUTH CAROLINA

VOR RECEIVER CHECKPOINTS

		Type			
		Check	Azimuth	Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Charleston AFB/Intl	113.5/CHS	G	225	.7	Runup pad Rwy 03.
	113.5/CHS	G	009	.5	Runup pad Rwy 21.
	113.5/CHS	G	337	1.2	Runup pad Rwy 15.
	113.5/CHS	G	331	0.3	Runup area for Rwy 33.
Electric City (Anderson Rgnl)	108.6/ELW	G	039	5.5	On ramp in front of terminal bldg.
Grand Strand	117.6/CRE	A/1100	238	6	Over white water tank.
	117.6/CRE	G	213	0.7	On runup pad Rwy 05.
Greenwood Co	115.5/GRD	G	250	.7	End of taxiway at Rwy 09

VOR TEST FACILITIES (VOT)

Facility Name		Type VOT	
(Airport Name)	Freq.	Facility	Remarks
Charleston AFB/Intl	111.0	G	

VOR RECEIVER CHECK TENNESSEE

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Hinch Mountain (Crossville Memorial-Whitson Fld)	117.6/HCH	A/2900	336	11	Over metal hangar.
,	117.6/HCH	G	335	11.5	Runup area between taxiway and rwy at center of fld.
Holston Mountain (Tri-Cities Rgnl TN/VA)	114.6/HMV	G	286	13.7	On ramp S of terminal building.
Jackson (McKellar–Sipes Rgnl)	112.0/MKL		256	0.6	At south end of ramp at fire station.
Nashville (Lebanon Muni) Tullahoma Rgnl/Wm Northern Fld	114.1/BNA	A/2000 A/1800	082 003	18 5.0	Over midfield. Over Normandy Dam.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Knoxville (McGhee-Tyson)	112.0	G	
Memphis Intl	111.0	G	
Nashville Intl	108.6	G	
Smyrna	110.2	G	

PUERTO RICO

VOR RECEIVER CHECKPOINTS

		Type			
		Check	Azimuth	Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Borinquen (Rafael Hernandez)	113.5/BQN	G	271	2.2	On apch end of Rwy 08.

VIRGIN ISLANDS

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Saint Thomas (Cyril E. King)	108.6/STT	G	118	3.5	On taxiway North of Main ramp. VOR gnd checkpoint unusable.

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The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations, Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower or ARTCC.

Qualified parachute jumping sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump area is charted.

To qualify for charting, a jump area must meet the following criteria:

- (1) Be in operation for at least 1 year.
- (2) Operate year round (at least on weekends).
- (3) Log 4,000 or more jumps each year.

In addition, jump sites can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
	ALABAMA		
Allen Army Heliport	11 NM; 253° Wiregrass	12,500	1 NM radius. SR-SS weekends and holidays.
(c) Bayou La Batre, Roy E.Ray Arpt	12 NM; 217° Brookley	12,500	Daily SR-SS
Bessemer, Old Bessemer Arpt	16 NM; 057° Brookwood	10,000	1030-SS weekends
(c) Cullman, Folsom Fld Arpt	36 NM; 001° Vulcan	14,500	3 NM radius. SR-SS Sat-Sun, other times by NOTAM.
(c) Dothan, Hatch Army Heliport	10.3 NM; 290° Wiregrass	12,500 AGL	1 NM SR-SS weekends and holidays.
(c) Elberta, Horak Arpt	11 NM; 268° Saufley	14,000	Daily 0700-1/2 hour after SS.
Ellis Drop Zone	15 NM; 220° Decatur	1,500	0.4 NM radius. Occasional use
Eutaw Muni Arpt	30 NM; 200° Crimson	13,000 AGL	Weekends and holidays
Gadsden, Northeast Alabama Rgnl Arpt	3 NM; 230° Gadsden	14,000	Weekends and holidays 0900-SS.
Harvest, Epps Arpk	9 NM; 297° Rocket	13,500	Daily SR-SS
(c) Hazel Green	7 NM; 355° Rocket	14,000	7 NM radius. Daily SR–SS. Occasional night use.
Headland Muni Arpt	8 NM; 070° Wiregrass	15,000	Weekdays 1200-SS; Sat-Sun, and holidays SR-SS
Jones Drop Zone	6 NM; 276° Rocket	1,500	0.25 NM radius. Occasional use
Kilby Drop Zone	13 NM; 014° Montgomery	1,500	0.2 NM radius. Occasional use
Moundville Arpt	18 NM; 198° Tuscaloosa	12,000 AGL	5 NM radius. 0900–SS on weekends, occasionally weekdays by Notam.
Pell City, St Clair Co Arpt	10 NM; 263° Talladega	15,500	5 NM radius. SR-SS daily except Mon-Tue.
Pinson, Industrial Park	12 NM; 085° Vulcan	10,500	0800–SS Sat–Sun, occasionally weekday and ngt use.
Prattville-Grouby Fld Arpt	17 NM; 300° Montgomery	2,000	10NM radius. For specific times call 334–953–7325.
Redstone Drop Zone	9 NM; 220° Rocket	1,500	0.2 NM radius. Occasional use
Renda Drop Zone	8 NM; 234° Talledega	1,500	0.25 NM radius. Occasional use
Tac Runkle Drop Zone	19 NM; 280° Cairns	3,500 AGL	Occasional use
Tommy Drop Zone	17 NM; 235° Montgomery	1,500	0.2 NM radius. Occasional use
(c) Tuskegee, Moton Fld Muni	2 NM; 198° Tuskegee	12,500	3 NM radius. Occasionally on weekends.
Vincent	37 NM; 130° Vulcan	10,000	5 NM radius. Weekends 0900-SS.
Warrior	11 NM; 350° Vulcan	12,500	Daily SR-SS
Weaver, McMinn Arpt	15 NM; 047° Talladega	12,500	1 NM radius. Daily SR–SS, occasional night use.
(c) Wetumpka Muni	18 NM; 356° Montgomery	10,000	Daily SR-SS
Annadia Mani	FLORIDA	45.000	5 NM and the OD OD dotte
Arcadia Muni		15,000	5 NM radius. SR–SS daily, occasional ngt use.
Avon Park Executive Arpt		4,000	4 NM radius. Daily SR-SS
Brandon, Sod Farm		15,000	0830-1830 weekends
(c) Bunnell, Flagler County Arpt		14,000	3 NM radius. SR–SS daily. Occasional nights.
Chassahowitzka Drop Zone	38 NM; 010° St. Petersburg	4,000	0.25 NM radius. Occasional use

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
(c) Clewiston, Airglades Arpt	19 NM; 097° LaBelle	13,500	1 NM radius. Daily SR-SS
(c) Coleman, Freeflight Arpt		15,000	3 NM radius. Daily SR-SS.
(c) Deland Muni–Sidney H Taylor Fld	17 NM; 210° Ormond Beach	15,000	1 NM radius. SR-SS Sat, Sun, occasionally weekdays.
Englewood, Buchan Arpt		15,000 AGL	2 NM radius. Sunday 1000-SS
Florabama Drop Zone		14,000	2 NM radius. Fri-Sun 0830-SS.
(c) Homestead General Aviation		15,000	5 NM radius. 24 hrs daily.
Jacksonville, Herlong Arpt	15 NM; 255° Craig	15,000	1 NM radius. Daily SR-SS with prior notification to JAX APP CON.
Key West		7,000	0.2 NM radius. Occasional use.
(c) La Belle, Sundance Farms Arpt (c) Lake Wales Muni		12,500 18,000	1 NM radius. Daily SR-SS. 7 NM radius, 24 hrs daily. Miami Center 127.2
(c) MacDill AFB(c) Melanie's Arpt		10,000 13,000	0600–1100 Sun. Over Rwy 31 3 NM radius. SR–SS Sat–Sun, holidays and other times by
(c) Myakka City	18 NM; 097° Sarasota	12,500	NOTAM. 5 NM radius, 24 hrs daily
(c) New Smyrna Beach, Massey Ranch Airpark	22 NM; 150° Ormond Beach	15,000	1 NM radius SR-SS weekends, occasionally weekdays.
(c) Palatka Muni-Lt. Kay Larkin Fld	36 NM; 079° Gainesville	12,500	3 NM radius. Daily, SR-SS
(c) Pahokee, Palm Beach Co Glades Arpt	at Pahokee	17,500	3 NM radius, 0800-1800 daily.
(c) Quincy Muni Arpt		15,000	Daily SR-SS
St. Augustine		12,500	Sat–Sun occasionally weekdays
(c) Shell Creek Airpark		14,000 13,000	2 NM radius. Daily SR-SS.1 NM radius. SR-SS weekends, holidays.
(c) Sugar Loaf Shores Arpt	13 NM; 071° Key West	14,000	2 NM radius. SR-SS.
Sun City		12,500	
(c) Titusville, Arthur Dunn Air Park (c) Umatilla Muni Arpt		13,500 13,000 AGL	1 NM radius, SR–SS daily. 2 NM radius. SR–SS. Occasional night use.
Wakulla Co Arpt	35 NM; 180° Seminole	13,500	3 NM radius. SR–SS weekends occasionally weekdays. Tallahassee Rgnl Tower 135.8
(C) Williston Muni Arpt	22 NM; 210° Gators	11,000	2.5 NM radius. SR–SS Fri, Sat and Sun. Jacksonville Center 118.6
(c) Zephyrhills Muni	16 NM; 330° Lakeland	20,000	E of Rwy 18-36. Daily SR-2300
	GEORGIA		
Bunker Hill Drop Zone		8,000	1 NM radius. SR-1 hr after SS
•			daily, irregular intervals. Mass military jumps from multiple acft.
(c) Cedartown, Polk Co Arpt-Cornelius Moore Fld	9 NM; 188° Rome	15,000	3 NM radius. SR-SS daily, occasionally nights.
Claxton–Evans Co Arpt(c) Dahlonega, Lumpkin County	33.6 NM; 276° Savannah	7,500	0900-SS Sat and Sun
Arpt, Wimpy Drop Zone	23 NM; 193° Harris	15,000	1 NM radius. SR to 1 hr after SS daily irregular intervals. Mass military jumps from multiple acft.
Dahlonega Highway 76 Drop Zone		3,000	Occasional use.
Fort Benning, Box Spring Drop Zone		3,000	Occasional use.
Fort Benning, Eelbeck Drop Zone		3,000	Occasional use.
(c) Fort Benning, EuBanks Drop Zone (c) Fort Benning, Fryar Field Drop Zone		12,500 13,000	Daily 0500–1900 0.5 NM radius, Continuous.
(c) Fort Benning, Gardner Drop Zone		12,500	Daily 0500–1900
Fort Benning, Lawson AAF (Fort Benning)	1.8 NM; 046° Lawson	12,500	1 NM radius. Daily SR-SS
Fort Benning, Lae Drop Zone	21 NM; 166° Columbus	3,000	Occasional use
Fort Benning, Ledo Drop Zone		3,000	Occasional use
Fort Benning, McKenna Drop Zone (c) Fort Benning, York Drop Zone		3,000	Occasional use
Fort Valley, Miami Valley Farms Arpt Locust Grove, Mallards		12,500 14,000	Daily 0500-1900 1 NM radius, Daily 0900-SS
Landing Arpt	17.5 NM; 118° Atlanta	13,500	Sat, Sun and holidays SR–SS. Occasional ngt jumps
(c) Monroe–Walton Co Arpt		13,500	5 NM radius. Daily 0800-2100.
Plantation Airpark, Moore Drop Zone	36 NM; 332° Savannah	1,500 AGL	NM radius. Occasional use. Mass Military jumps from multiple acft.
(c) Rome, Richard B. Russell Arpt	11.3 NM; 349° Rome	15,000	5 NM radius. SR–SS Weekends.
St Marys Arpt		12,000	2 NM radius. Daily 0700-1859.

PARACHUTE JUMPING AREAS

LOCATION Thomaston-Upson Co	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC 35 NM; 296° Macon	MAXIMUM ALTITUDE 14,500	REMARKS 1 NM radius. Sat–Sun occasionally
Tifton Henry Tift Myers Arnt	1 NM; 090° Tift Myers	15,000	weekdays. 5 NM radius. Daily 0700–1800.
	8 NM; 100° Waycross	12,500	1 NM radius. Daily 1000–1800.
	14 NM; 245° Harris	8,000	NM radius. SR to 1 hr after SS daily, irregular intervals. Mass military jumps from multiple acft.
	KENTUCKY		
Elizabethtown, Addington Fld	12 NM; 285° New Hope	11,000	3 NM radius, SR-SS Weekends and noon-SS weekdays.
Elkton, Standard Fld(c) Flemingsburg, Fleming Mason Arpt .	16 NM; 045° Clarksville 27 NM; 103° Falmouth	12,000 12,500	5 NM radius. Continuous. 1 NM radius. SR-SS Sat-Sun and holidays.
Ft. Campbell, Bastogne Drop Zone	8 NM; 274° Clarksville	3,000	0600–2330 Mon–Fri and occasional weekends. Military use.
Ft. Campbell, Corregidor Drop Zone	11 NM; 270° Clarksville	3,000	0600-2330 Mon-Fri and occasional weekends. Military
Ft. Campbell, Los Banos Drop Zone	10 NM; 270° Clarksville	3,000	use. 0600–2330 Mon–Fri and occasional weekends. Military
Ft. Campbell, Suckchon Drop Zone	10 NM; 270° Clarksville	3,000	use. 0600–2330 Mon–Fri and occasional weekends. Military
Glasgow Muni Arpt	24 NM; 073° Bowling Green	8,000	use. 5 mi radius. SR-SS weekends and holidays
(c) Greenville, Muhlenberg Co Arpt	10 NM; 149° Central City	13,500	5 mi. radius. Daily SR-SS.
	7 NM; 149° Central City	2,000	2 NM radius. Intermittent. Military use.
(c) Hopkinsville–Christian Co	14 NM; 352° Clarksville	14,500	3 NM radius, 0900–1600 Tue–Fri; occasional weekends.
Owensboro, Windy Hollow Drag Strip	6 NM; 205° Owensboro	8,000	2 NM radius. 0800–SS Sun, holidays occasionally other times
	NODTH CARCHINA		amee
	NORTH CAROLINA		
(c) Cherry Point, Cannon Drop Zone	9 NM; 184° Cherry Point Tacan	10,500	3 NM radius. Weekends and holidays, occasional use weekdays.
	22 NM; 030° Fayetteville	4,500	1 NM radius. Sat & Sun afternoons
(c) Fayetteville, Southern Comforts Arpt	9 NM; 220 Fayetteville	14,000	3 NM radius. Fri–Mon and holidays SR–SS.
Greensboro, Southeast Greensboro Arpt	18 NM; 115° Greensboro	12,000	1 NM radius. 0800–2000 Sat and Sun.
	8 NM; 339° Liberty	11,000	3 NM radius. 0800-1600 Fri-Sun.
	22 NM; 040° Kinston	15,500 15,000	Daily SR–SS. 3 NM radius. SR–SS daily,
(c) Juliesville, Swall Greek Alpt	27 NW, Darretts Wountain	15,000	occasional night.
	22 NM; 060° Raleigh–Durham	15,500	30 min before SR–30 min after SS daily. Occasional ngt.
	13 NM; 152° Sandhills 11 NM; 150° Sandhills	17,500 17,500	0600–1900 Daily. Continuous.
	26 NM; 250° Fayetteville	13,500	0800–1700 Mon–Fri.
	29 NM; 296° Raleigh/Durham	12,000	1 NM radius. 0900-SS Weekends; occasionally other times.
	8.75 NM; 143° Sandhills	12,500	Sat, Sun and holidays. Weekdays on request.
	17 NM; 280° Fayetteville	12,500 AGL	Continuous.
(C) KOCKY MOUNT	9.5 NM; 285° Tar River 27.2 NM; 209° Wilmington	12,500	Sat, Sun and holidays 0900–SS.
Thomasville. Fairgrove Arnt	13 NM; 201° Greensboro	12,000 14,000	3 NM radius. 0800–2100 daily. Weekends and holidays.
	23 NM; 351° Wilmington	15,000 AGL	3 NM radius. Sat–Sun SR–SS.
	27.6 NM; 069° Kinston	14,999 AGL	2 NM radius. SR-SS daily, occasional night use.
	SOUTH CAROLINA		-
(c) Barnwell Rgnl Arnt	15 NM; 343° Allendale	12,500	Daily SR-SS.
	38.25 NM; 067° Savannah	10,000	1.0 NM radius. Sat, Sun and holidays SR-SS.
	16.5 NM; 223° Fort Mill	13,500 AGL	1 NM radius. Daily 0800-SS.
	14 NM; 343° Electric City	12,000	Daily SR-SS.
CUIUMDIA, FORT JACKSON	10 NM; 020° Columbia	10,000	1 NM radius. Weekends, occasional weekdays.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
(c) Green Sea Arpt		15,000	3 NM radius. Weekends and occasional weekdays SR-SS.
(c) Loris, Twin City Arpt(c) North AF Aux Arpt	15 NM; 340° Grand Strand 15 NM; 186° Columbia	12,000 2,000	Weekends, holidays 0800–SS. ½ NM radius. Mon–Fri 0800–2200. Military personnel and heavy equipment.
St George Arpt Timmonsville, Huggins Arpt (c) Walterboro, Lowcountry Rgnl Arpt	17 NM; 192° Vance	17,900 12,500 12,500 AGL	SR-1 hr after SS. Daily SR-SS. Weekends.
	TENNESSEE		
Campbell Co. Chattanooga Clarksville, Outlaw Fld.	28.9 NM; 336° Volunteer 13 NM; 087° Choo Choo Over Clarksville	13,500 10,000 14,000 AGL	2 NM radius. 0800-one hr byd SS. Continuous. 4 NM radius. Daily SR-SS, occasional ngts.
Crossville Meml-Whitson Fld	11.5 NM; 335° Hitch Mountain	14,500	1 NM radius. Daily SR-1 hr after SS, occasional nights.
(c) Dunlap	30 NM; 335° Choo Choo 4.1 NM; 302° Clarksville 13 NM; 212° Livingston	9,000 12,500 12,500	5 NM radius. SR-SS Daily. Daily. Weekends.
(c) Paris, Henry Co	44.3 NM; 357° Jacks Creek 10 NM; 133° Volunteer 26 NM; 210° McKellar	13,500 13,500 14,000 AGL	5 NM radius. Daily SR-SS. 3 NM radius. Weekends SR-SS. 2 NM radius. Weekends 0700-SS. Occasional ngt jumps.
Tullahoma Rgnl Arpt/WM Northern Fid	14.1 NM; 139° Shelbyville	15,000	5 NM radius. SR-SS primarily weekends with occasional nights.
Whifferdill	25 NM; 303° Nashville	11,500	2 NM radius. Weekends SR-SS.
	PUERTO RICO		
(c) Arecibo, Antonio/Nery/Juarbe Pol Arpt.	25 NM; 105° Borinquen	12,500	0600–1800 weekends & holidays.
(c) Humacao Arpt	20.9 NM; 159° San Juan	15,000	2.5 NM radius. Weekends SR-SS, occasionally holiday SR-SS.
	VIRGIN ISLANDS		
St. Croix, Ordinance Drop Zone		2,000	0700–1400 Mon–Fri. 5 NM radius from 17°49'N 064°52'W.
St. Thomas, Cyril E. King No. 1 St. Thomas, Cyril E. King No. 2		15,000 15,000	17 40 N 004 02 W.

The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown — route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

ATLANTA SECTIONAL 83rd Edition. 27 Aug 2009

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OBSTRUCTIONS
27 Aug 2009 No Major Changes.
22 Oct 2009 Add obst 1327'MSL (310'AGL)UC, 34°21'17"N, 87°41'54"W. Add obst 1114'MSL (346'AGL)UC, 34°37'03"N, 82°05'12"W. Add obst 1629'MSL (285'AGL)UC, 36°04'48"N, 84°31'00"W.
Add obst 879'MSL (296'AGL)UC, 32°54'16"N, 86°30'27"W.
Add obst 1183'MSL (227'AGL)UC, 35°04'04"N, 86°30'50"W.
Add obst 569'MSL (285'AGL)UC, 33°52'09"N, 81°07'44"W.
17 Dec 2009 Add obst 751'MSL (420'AGL)UĆ, 32°04'46"N, 86°24'32"W. Add obst 1010'MSL (600'AGL)UC, 32°49'46"N, 87°25'47"W.
Add obst 794'MSL (310'AGL)UC, 32°38'32"N, 86°45'19"W. Add obst 999'MSL (320'AGL)UC, 35°57'38"N, 87°45'23"W.
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AIRPORTS

27 Aug 2009 No Major Changes.

22 Oct 2009 Delete POWELL arpt, 36°02'40"N, 084°00'16"W. Change CTAF 122.9 to 122.8 at ROBBINS arpt, 33°58'16"N, 86°22'49"W.

17 Dec 2009 Add CHARLOTTE/DOUGLAS INTL ATCT 133.35. 35°12'48"N. 80°56'56"W.

Add RP 34 to ASHVILLE RGNL arpt, 35°26'10"N, 82°32'30"W.

NAVAIDS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

AIRSPACE

27 Aug 2009 – 22 Oct 2009 No Major Changes.
17 Dec 2009 Revise ANNISTON, AL Class E: That airspace extending upward from the surface within 5.5 radius of Anniston Metropolitan Airport and that airspace extending upward from 700 feet above the surface within a 12.7-mile radius of Anniston Metropolitan Airport and within a 9.5-mile radius of Talladega Municipal Airport and within a 11.5-mile radius of St. Clair County Airport, excluding that airspace within Restricted Area R-2101 when the restricted area is active.

Add CLAYTON, GA Class E: That airspace extending upward from 700 feet above the surface within a 6.9-mile radius of the Heaven's Landing Airport.

Add SALUDA, SC Class E: That airspace extending upward from 700 feet above the surface within a 6.3-mile radius of the Saluda County Airport

SPECIAL USE AIRSPACE

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

17 Dec 2009 Change MEF 15 to 16 in quadrant 32°00′-32°30′N, 85°00′- 85°30′W.

ATLANTA TERMINAL AREA CHART 80th Edition. 27 Aug 2009

OBSTRUCTIONS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

27 Aug 2009 - 17 Dec 2009 No Major Changes.

27 Aug 2009 - 17 Dec 2009 No Major Changes.

27 Aug 2009 - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

CG-21 WORLD AFRONAUTICAL CHART 40th Edition, 24 Sep 2009

OBSTRUCTIONS

22 Oct 2009 Add obst 1348'MSL (600'AGL), 34°15'06"N, 84°59'12"W. Change obst from 312'MSL to 1312'MSL, $33^{\circ}35'33''N$, $083^{\circ}58'31''W$. **17 Dec 2009** No Major Changes.

AIRPORTS22 Oct 2009 Change elevation from 191' to 1911' at Blairsville arpt, 34°51'16"N, 083°59'50"W. Change runway orientation to 01/19 at Halifax-Northhampton Co Rgnl arpt, 36°19'47"N, 077°38'07"W. 17 Dec 2009 No Major Changes.

22 Oct 2009 - 17 Dec 2009 No Major Changes.

22 Oct 2009 - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

CHARLOTTE SECTIONAL 86th Edition, 30 Jul 2009

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OBSTRUCTIONS
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27 Aug 2009 Add obst 727'MSL (310'AGL)UC, 35°00'34"N, 79°46'48"W. Add obst 537'MSL (310'AGL)UC, 34°02'15"N, 80°24'40"W. Add obst 268'MSL (263'AGL)UC, 35°47'45"N, 75°33'02"W.

Add obst 1335'MSL (575'AGL)UC, 35°12'56"N, 81°45'44"W. Add obst 404'MSL (300'AGL)UC, 34°11'08"N, 78°57'51"W.

22 Oct 2009 Add obst 768'MSL (499'AGL)UC, 34°59'54"N, 79°15'46"W.

Add obst 656'MSL (290'AGL)UC, 35°13'03'N, 80°00'55'W. Add obst 558'MSL (300'AGL)UC, 35°51'14"N, 78°53'39"W.

Add obst 326'MSL (310'AGL)UC, 34°51'44"N, 76°46'14"W. Add obst 844'MSL (390'AGL)UC, 35°07'18"N, 80°20'10"W. Add obst 365'MSL (300'AGL)UC, 34°10'08"N, 79°07'27"W.

Add obst 421'MSL (310'AGL)UC, 33°55'29"N, 79°54'56"N. Add obst 348'MSL (275'AGL)UC, 33°44'25"N, 79°56'04"W. Add obst 434'MSL (310'AGL)UC, 33°54'35"N, 80°01'52"W.

Add obst 1032'MSL (390'AGL)UC, 34°55'48"N, 80°38'59"W.

17 Dec 2009 No Major Changes.

AIRPORTS

27 Aug 2009 No Major Changes.

22 Oct 2009 Delete RP* at JAARS-TOWNSEND arpt, 34°51'49"N, 80°44'52"W.

Delete JORDAN arpt, 33°32'23"N, 79°31'55"W.

17 Dec 2009 Add CHARLOTTE/DOUGLAS INTL ATCT frequency 133.35 (RWY 18R/36/L), 35°12'48"N, 80°56′56″W.

27 Aug 2009 No Major Changes.

22 Oct 2009 Delete JOHNS ISLAND NDB. 32°42'05"N. 80°00'20"W.

17 Dec 2009 No Major Changes.

27 Aug 2009 Revise Albemarle, NC Class D; That airspace extending upward from the surface to and including 3,100 feet MSL within a 5.8-mile radius of Stanly County Airport and within 1.5 miles each side of the 043 degree bearing from Stanly County Airport to 7.8 miles Northeast. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective date and time will thereafter be continuously published in the Airport/Facility Directory.

22 Oct 2009 No Major Changes.
17 Dec 2009 Change SHAW AFB CLASS C frequency from 385.6 to 285.4.

Add Hertford, NC Class E. That airspace extending upward from 700 feet above the surface of the Earth within a 6.5-mile radius of Harvey Point Defense Testing Activity and within 2 miles each side of the 199° bearing from the airport extending from the 6.5-mile radius to 9 miles southwest of the airport, and within a 6.5-mile radius of Harvey Point Defense Testing Activity and within 2 miles each side of the 018° bearing from the airport extending from the 6.5-mile radius to 9 miles northeast of the airport. Add Saluda, SC Class E. That airspace extending upward from 700 feet above the surface within a 6.3-mile radius of the Saluda County Airport.

SPECIAL USE AIRSPACE

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

CHARLOTTE TERMINAL AREA CHART 41st Edition. 30 Jul 2009

OBSTRUCTIONS

27 Aug 2009 Add obst 1335'MSL (575'AGL)UC, 35°12'56"N, 81°45'44"W. **22** Oct 2009 Add obst 844'MSL (390'AGL)UC, 35°07'18"N, 80°20'10"W.

17 Dec 2009 No Major Changes.

AIRPORTS

27 Aug 2009 Revise Albemarle, NC Class D; That airspace extending upward from the surface to and including 3,100 feet MSL within a 5.8-mile radius of Stanly County Airport and within 1.5 miles each side of the 043 degree bearing from Stanly County Airport to 7.8 miles Northeast. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective date and time will thereafter be continuously published in the Airport/Facility Directory. Revise Albemarle, NC Class E; That airspace extending upward from 700 feet above the surface within an 8-mile radius of Stanly County Airport.

Revise Albemarle, NC Class E; That airspace extending wuward from 700' above the surface within an 8-mile radius of Stanly County Airport.

8-mile radius of Stanly County Airport. **22 Oct 2009** Delete RP* at JAARS-TOWNSEND arpt, 34°51'49"N, 80°44'52"W.

17 Dec 2009 Add CHARLOTTE/DOUGLAS INTL ATCT frequency 133.35 (RWY 18R/36/L), 35°12'48"N, 80°56'56"W.

NAVAIDS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

AIRSPACE

27 Aug 2009 - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

CINCINNATI SECTIONAL 83rd Edition, 17 Dec 2009

OBSTRUCTIONS

17 Dec 2009 No Major Changes.

AIRPORTS

17 Dec 2009 No Major Changes.

NAVAIDS

17 Dec 2009 No Major Changes.

AIRSPACE

17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

MISCELLANEOUS

CINCINNATI TERMINAL AREA CHART 22nd Edition. 17 Dec 2009

OBSTRUCTIONS

17 Dec 2009 No Major Changes.

AIRPORTS

17 Dec 2009 No Major Changes.

NAVAIDS

17 Dec 2009 No Major Changes.

AIRSPACE

17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

MISCELLANEOUS

17 Dec 2009 No Major Changes.

IFR GULF OF MEXICO CENTRAL 1st Edition, 17 Dec 2009

OBSTRUCTIONS

17 Dec 2009 No Major Changes.

AIRPORTS

17 Dec 2009 No Major Changes.

NAVAIDS

17 Dec 2009 No Major Changes.

AIRSPACE

17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

MISCELLANEOUS

17 Dec 2009 No Major Changes.

IFR GULF OF MEXICO WEST 1st Edition, 17 Dec 2009

OBSTRUCTIONS

17 Dec 2009 No Major Changes.

AIRPORTS

17 Dec 2009 No Major Changes.

NAVAIDS

17 Dec 2009 No Major Changes.

AIRSPACE

17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

MISCELLANEOUS

JACKSONVILLE SECTIONAL 84th Edition, 27 Aug 2009

OBSTRUCTIONS

27 Aug 2009 No Major Changes.

22 Oct 2009 Add obst 632'MSL (622'AGL)UC, 27°55'55"N, 82°24'04"W.

Add obst 487'MSL (473'AGL)UC, 31°46'58"N, 81°26'27"W.

17 Dec 2009 No Major Changes.

AIRPORTS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

27 Aug 2009 - 17 Dec 2009 No Major Changes.

27 Aug 2009 - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MEMPHIS SECTIONAL 83rd Edition, 24 Sep 2009

OBSTRUCTIONS

22 Oct 2009 Add obst 505'MSL (328'AGL), 34°21'56"N, 90°38'14"W.

Add obst 798'MSL (420'AGL)UC, 32°05'24"N, 90°39'59"W. Add obst 979'MSL (499'AGL)UC, 34°13'53"N, 93°16'47"W.

Add obst 495'MSL (330'AGL)UC, 33°39'16"N, 92°40'34"W. Add obst 945'MSL (645'AGL)UC, 33°38'59"N, 93°48'43"W. **17 Dec 2009** Add obst 779'MSL (311'AGL)UC, 32°52'06"N, 89°10'13"W.

Add obst 558'MSL (311'AGL)UC, 32°45'06"N, 90°08'26"W.

Add obst 1465'MSL (304'AGL)UC, 36°05'39"N, 93°07'56"W.

Add obst 711'MSL (305'AGL)UC, 35°12'53"N, 92°27'30"W. Add obst 820'MSL (311'AGL)UC, 32°58'38"N, 89°22'06"W. Add obst 852'MSL (499'AGL)UC, 32°08'05"N, 90°03'41"W.

Add obst 826'MSL (256'AGL)UC, 32°54'53"N, 89°15'18"W.

Add obst 788'MSL (260'AGL)UC, 35°28'15"N, 88°31'00"W. Change obst from 693'MSL (331'AGL)to 753'MSL (391'AGL), 32°28'00"N, 94°23'59"W.

Add obst 1624'MSL (339'AGL)UC, 36°02'15"N, 93°55'05"W.

Add obst 724'MSL (475'AGL)UC, 35°39'50"N, 89°56'44"W.

22 Oct 2009 Add RP 35 to TUNICA MUNI arpt, 34°41'06"N, 90°20'52"W.

17 Dec 2009 FULTON ITAWAMBA CO arpt abandoned, 34°21'07"N, 88°22'38"W.

Delete abandoned arpt sym, 33°54′17″N, 94°50′43″W.

Delete abandoned arpt sym, 33°07'46"N, 94°58'32"W.

NAVAIDS

22 Oct 2009 Shutdown PINHOOK NDB, 35°15′14″N, 88°12′15″W. Change bearing 294° to 293° from HAMILTON VORTAC(HAB) 34°11'42"N, 88°00'45"W.

17 Dec 2009 Shutdown CLARKSDALE NDB, 34°17'35"N, 90°30'56"W.

AIRSPACE

22 Oct - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

27 Oct 2009 Change MEF 10 to 11 in quadrant 33°30′00″-34°00′00″N, 93°30′00″-94°00′00″W.

MEMPHIS TERMINAL AREA CHART 41st Edition. 24 Sep 2009

OBSTRUCTIONS

22 Oct 2009 No Major Changes.

17 Dec 2009 Add obst 724'MSL (475'AGL)UC, 35°39'50"N, 89°56'44"W.

AIRPORTS

22 Oct 2009 Add RP 35 to TUNICA MUNI arpt, 34°41′06″N, 90°20′52″W.

17 Dec 2009 No Major Changes.

NAVAID:

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MIAMI SECTIONAL 85th Edition. 27 Aug 2009

OBSTRUCTIONS

27 Aug 2009 No Major Changes.

22 Oct 2009 Add obst 306'MSL (250'AGL)UC, 27°39'56"N, 81°22'11"W.

Add obst 632'MSL (622'AGL)UC, 27°55'55"N, 82°24'04"W.

17 Dec 2009 No Major Changes.

AIRPORTS

27 Aug 2009 No Major Changes.

22 Oct 2009 Delete COXS HAMMOCK arpt, 27°04'18"N, 80°31'12"W.

17 Dec 2009 Change GWINN ATCT freq from 314.6 to 279.25, 26°54'30"N, 80°19'44"W. Delete STRAZZULLA GROVES arpt, 27°29'51"N, 80°31'47"W.

NAVAIDS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

AIRSPACE

27 Aug 2009 - 22 Oct 2009 No Major Changes.

17 Dec 2009 Revise SARASOTA, FL Class E airspace. That airspace extending upward from the surface within 2.4 miles each side of the 140° bearing from the airport, extending from a 5-mile radius of Sarasota/Bradenton International Airport to 6.2 miles southeast of the airport and that airspace 2.4 miles each side of the 293° bearing from the airport, extending from a 5-mile radius of Sarasota/Bradenton International Airport to 7.9 miles northwest of the airport. This Class E airspace area is effective during the specific days and times established in advance by a Notice to Airmen. The effective days and times will thereafter be continuously published in the Airport/Facility Directory. Revise SARASOTA, FL Class E airspace. That airspace extending upward from 700 feet above the surface within a 7.9-mile radius of the Sarasota/Bradenton International Airport.

SPECIAL USE AIRSPACE

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 22 Oct 2009 No Major Changes.

17 Dec 2009 Change RP * to RP 10R at ST LUCIE COUNTY INTERNATIONAL arpt, 27°29′50″N, 80°22′21″W.

MIAMI TERMINAL AREA CHART 74th Edition, 27 Aug 2009

OBSTRUCTIONS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

AIRPORTS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

NAVAIDS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

AIRSPAC

27 Aug 2009 - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

NEW ORLEANS SECTIONAL 85th Edition, 19 Nov 2009

OBSTRUCTIONS

17 Dec 2009 Add obst 250' MSL (231' AGL), 30°26'08"N, 90°38'21"W. Add obst 852' MSL (499' AGL), 32°08'05"N, 90°03'41"W. Change obst from 544' MSL (310' AGL) to 644' MSL (410' AGL), 31°52'32"N, 90°10'15"W. Add obst 651' MSL (470' AGL), 31°44'31"N, 88°32'22"W.

AIRPORT

17 Dec 2009 Delete WOLF RIVER ARPT, 30°54′52″N, 89°26′40″W.

NAVAIDS

17 Dec 2009 No Major Changes.

AIRSPACE

17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

MISCELLANEOUS

ORLANDO TERMINAL AREA CHART 39th Edition. 27 Aug 2009

OBSTRUCTIONS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

27 Aug 2009 - 17 Dec 2009 No Major Changes.

27 Aug 2009 - 17 Dec 2009 No Major Changes.

27 Aug 2009 - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

PUFRTO RICO-VIRGIN ISLAND TERMINAL AREA CHART 36th Edition, 22 Oct 2009

OBSTRUCTIONS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

22 Oct 2009 - 17 Dec 2009 No Major Changes.

22 Oct 2009 - 17 Dec 2009 No Major Changes.

22 Oct 2009 - 17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

22 Oct 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

22 Oct 2009 - 17 Dec 2009 No Major Changes.

AERONAUTICAL CHART BULLETIN

ST. LOUIS SECTIONAL 81st Edition, 17 Dec 2009

OBSTRUCTIONS

17 Dec 2009 No Major Changes.

17 Dec 2009 No Major Changes.

NAVAIDS

17 Dec 2009 No Major Changes.

AIRSPACE

17 Dec 2009 No Major Changes.

SPECIAL USE AIRSPACE

17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 No Major Changes.

MISCELLANEOUS

17 Dec 2009 No Major Changes.

TAMPA TERMINAL AREA CHART 39th Edition, 27 Aug 2009

OBSTRUCTIONS

27 Aug 2009 No Major Changes. 22 Oct 2009 Add obst 632'MSL (622'AGL)UC, 27°55'55"N, 82°24'04"W.

17 Dec 2009 No Major Changes.

27 Aug 2009 - 17 Dec 2009 No Major Changes.

27 Aug 2009 - 17 Dec 2009 No Major Changes.

AIRSPACE

27 Aug 2009 - 22 Oct 2009 No Major Changes.

17 Dec 2009 Revise SARASOTA, FL Class E: That airspace extending upward from the surface within 2.4 miles each side of the 140° bearing from the airport, extending from a 5-mile radius of Sarasota/Bradenton International Airport to 6.2 miles southeast of the airport and that airspace 2.4 miles each side of the 293° bearing from the airport, extending from a 5-mile radius of Sarasota/Bradenton International Airport to 7.9 miles northwest of the airport. This Class E airspace area is effective during the specific days and times established in advance by a Notice to Airmen. The effective days and times will thereafter be continuously published in the Airport/Facility Directory. Revise SARÁSOTA, FL Class E airspace. That airspace extending upward from 700 feet above the surface within a 7.9-mile radius of the Sarasota/Bradenton International Airport.

SPECIAL USE AIRSPACE

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

WASHINGTON SECTIONAL 86th Edition, 30 Jul 2009

OBSTRUCTIONS

27 Aug 2009 No Major Changes.

22 Oct 2009 Add obst 588'MSL (421' AGL) UC, 37°35'09"N, 77°15'47"W. Add obst 434'MSL (400' AGL) UC, 36°26'12"N, 76°43'25"W.

Add obst 3226'MSL (400' AGL) UC, 40°01'35"N, 78°48'07"W. Add obst 369'MSL (309' AGL) UC, 37°24'37"N, 76°32'51"W.

17 Dec 2009 Add obst 2857'MSL (262'AGL)UC, 39°45'14"N, 78°53'27"W.

27 Aug 2009 No Major Changes. **22 Oct 2009** Delete BOLLING AFB heliport, 38°50′34″N, 77°00′58″W.

17 Dec 2009 No Major Changes.

27 Aug 2009 No Major Changes. **22 Oct 2009** Delete LOUISA NDB, 38°01′14″N, 77°51′33″W.

17 Dec 2009 No Major Changes.

27 Aug 2009 – 22 Oct 2009 No Major Changes.
17 Dec 2009 Add HERTFORD, NC Class E: That airspace extending upward from 700 feet above the surface of the earth within a 6.5-mile radius of Harvey Point Defense Testing Activity and within 2 miles each side of the 199° bearing from the airport extending from the 6.5-mile radius to 9 miles southwest of the airport, and within a 6.5-mile radius of Harvey Point Defense Testing Activity and within 2 miles each side of the 018° bearing from the airport extending from the 6.5-mile radius to 9 miles northeast of the airport.

SPECIAL USE AIRSPACE

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MILITARY TRAINING ROUTES

27 Aug 2009 - 17 Dec 2009 No Major Changes.

MISCELLANEOUS

27 Aug 2009 - 17 Dec 2009 No Major Changes.

SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private—use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

	ST	

	UNITED STATES	
FACILIT	Y NAME	CHART & PANEL
	kfort, IL (LL4Ø)	L-28H
C	hicago App/Dep Con 133.1 285.6	
Glasg	gow Industrial, MT (Ø7MT)	H-1E, 2F, L-13D
S	alt Lake Center App/Dep Con 126.85 305.2	
USAF	Academy Bullseye Aux Airstrip, CO (CO9Ø)	L-10F
AS	SOS 118.325	
West	t Kentucky Airpark, KY (5KY3)	L-16I
M	lemphis Center App/Dep Con 133.65 292.15	
Willia	am P Gwinn, FL (Ø6FA)	H-8I, L-23C
G ¹	winn Tower 120.4 279.25 (Mon-Fri 1300-2100Z‡)	
G	nd Con 121.65 279.25	
	CANADA	
FACILIT		CHART & PANEL
Abbo	rtsford, BC (CYXX)	H-1B, L-12F
A ⁻	TIS 119.8 (1500-0700Z‡)	
Vi	ictoria Trml App/Dep Con 132.7 (Avbl on ground) 290.8	
To	ower 119.4 (Inner) 121.0 (Outer) 295.0 (1500-0700Z‡) Gnd Con 121.8	
	IF 119.4 295.0 (0700–1500Z‡) (Shape irregular to 4500')	
	s/Magny, QC (CYEY)	H-11B
	Iontreal Center App/Dep Con 125.9	
Atiko	okan Muni, ON (CYIB)	L-14I
M	IF 122.3 (5 NM to 4500' No ground station)	
Barri	ie-Orillia (Lake Simcoe Rgnl), ON (CYLS)	H-11B, L-31D
	WOS 122.55 (Pvt)	
	pronto Center App/Dep Con 124.025	
	River, ON (CPF2)	L-31C
	pronto Center App/Dep Con 132.65	
	urst, NB (CZBF)	L-32J
	loncton Center App/Dep Con 134.25	2 023
	idary Bay, BC (CZBB)	H-1B, L-1E
	TIS 125.5 (1500–0700Z‡)	15, 2 12
	ancouver App/Dep Con 132.3 363.8	
	ower 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3	
	IF 118.1 (0700–1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape	
	regular to 2500'.)	
	npton, ON (CNC3)	L-31D
	pronto Trml App/Dep Con 119.3 253.1	L=31D
	don Muni, MB (CYBR)	H-2H
	finnipeg Center App/Dep Con 132.25 285.4	п-2п
	IF 122.1 (5 NM to 4000')	L-31D
	tford, ON (CYFD) pronto Trml App/Dep Con 128.27	L-31D
	kville-Thousand Islands Rgnl Tackaberry, ON (CNL3)	L-32G
	Iontreal Center App/Dep Con 134.675	L-32G
	nont, QC (CZBM)	L-32G
	Iontreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400')	L=32G
	ngton Airpark, ON (CZBA)	L-31D
		L-31D
	pronto Center App/Dep Con 119.3 253.1	H-1C
	legar, BC (CYCG)	H-1C
	ancouver Center App/Dep Con 134.2 227.3	
	IF 122.1 (5 NM to 6500')	11 400 445 1 5:5
	ralia/James T. Fld Muni, ON (CYCE)	H-10G, 11B, L-31D
	pronto Center App/Dep Con 135.30	
Char	lottetown, PE (CYYG)	H-11E, L-32J
	loncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200')	
	ham-Kent, ON (CNZ3)	H-10G, L-30G

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COllingwood, ON (CNY3)	CHART & PANEL H-11B, L-31D
Toronto Center App/Dep Con 124.02	п-11В, L-31D
Cornwall Rgnl, ON (CYCC)	L-32G
Boston Center App/Dep Con 135.25 377.1	L 020
Cranbrook/Canadian Rockies Intl, BC (CYXC)	H-1C
Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	
Debert, NS (CCQ3)	H-11E, L-32J
Halifax Trml App/Dep Con 119.2	
Dighy, NS (CYID)	L-32J
Moncton Center App/Dep Con 123.9	
Downsview, DN (CYZD)	H-11B, L-31E
Toronto Center App Con 133.4 Toronto Center Dep Con 133.4	
MF 126.2 (1300–2300Z‡, 3 NM to 1700′)	
Drummondville, QC (CSC3)	L-32H
Montreal Center App/Dep Con 132.35	
Earlton (Timiskaming Rgnl), ON (CYXR)	H-11B
MF 122.0 (5 NM to 3800')	
AWOS 128.6	
Elliot Lake Muni, ON (CYEL)	L-31C
Toronto Center App/Dep Con 135.4	
Fort Frances Muni, ON (CYAG)	L-14H
Minneapolis Center App/Dep Con 120.9	
Fredericton Intl, NB (CYFC)	H-11E, L-32I
ATIS 127.55	
Moncton Center App/Dep Con 124.3 135.5 270.8 Tower 119.0 (1200–2000Z, DT 1100–1900Z) Gnd Con 121.7 (Ltd hrs)	
MF 119.0 (2000–1200Z, DT 1900–1100Z 5 NM to 3500')	
Goderich, ON (CYGD)	H-11B, L-31D
Toronto Center App/Dep 135.3 266.3	,
Greenwood, NS (CYZX)	H-11E, L-32J
ATIS 128.85 244.3 (1100-0000Z‡)	
App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3	
Gnd Con 133.75 289.4 Clnc Del 128.05 283.9	
Grimsby Air Park, ON (CNZ8)	L-31E
Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475	
Halifax/Shearwater, NS (CYAW)	H-11E, L-32J
ATIS 129.175 (Ltd hrs)	
App/Dep Con 119.2 Tower 119.0 126.2 340.2 360.2 (Ltd hrs) Gnd Con 121.7 250.1	
Halifax/Stanfield Intl, NS (CYHZ)	H-11E, L-32J
ATIS 121.0	11–111, 1–525
Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 225.2 363.8	
Tower 118.4 236.6 Gnd Con 121.9 275.8 Clnc Del 123.95	
Apron Advisory 122.125	
Hamilton, ON (CYHM)	H-10H, 11B, L-11B
ATIS 128.1	
Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0	
Gnd Con 121.6	
(ingston, ON (CYGK)	H-11C, L-31E, 32F
Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡)	
MF 122.5 (1115-0400Z‡ 5 NM to 3300') (itchener/Waterloo, ON (CYKF)	H-11B, L-31D
ATIS 125.1 (1200–0400Z‡)	п-11В, L-31D
Toronto Trml App/Dep Con 128.275	
Waterloo Tower 126.0 118.55 (1200–0400Z‡) Gnd Con 121.8	
MF 126.0 (0400–1200Z‡ 5 NM to 4000')	
achute, QC (CSE4)	L-32G
Montreal Center App Con 124.65 132.85 268.3	
Montreal Center Dep Con 132.85 268.3	
a Tuque, QC (CYLQ)	H-11C
Montreal Center App/Dep Con 134.5	
Langley, BC (CYNJ)	L-1E
ATIS 124.5 (1630-0230Z, DT 1530-0330Z)	
Victoria Trml 132.7 290.8 Tower 119.0 (1630–0230Z, DT 1530–0330Z)	
Gnd Con 121.9 MF 119.0 (0230–1630Z, DT 0330–1530Z 3 NM to 1900')	

.eamington, ON (CLM2)	CHART & PANE L-30
Cleveland Center App/Dep Con 132.45	
ethbridge, AB (CYQL)	H-11
ATIS 124.4 (1300-0545Z‡)	
Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000')	
indsay, ON (CNF4)	L-31E, L-32
Toronto Center App/Dep 134.25	
iverpool/South Shore Rgnl, NS (CYAU)	L-32
Moncton Center App/Dep Con 123.9	U 400 44B
ondon, ON (CYXU) ATIS 127.8 (1120-0345Z‡)	H-10G, 11B
Toronto Center App/Dep 135.3 135.625	L-30G, 31I
Tower 119.4 125.65 (1120–0345Z‡) Gnd Con 121.9	
MF 119.4 (0345–1120Z‡ 5 NM to 3000′)	
Manitowaning/Manitoulin East Muni, ON (CYEM)	L-31
Toronto Center App/Dep 135.4 260.9	2 01
Maniwaki, QC (CYMW)	L-32
Montreal Center App/Dep Con 126.57	
Mascouche, QC (CSK3)	L-32
MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the	
N shore of Riviere des Milles-lles and 1 NM around Lac Agile Mascouche arpt.)	
Medicine Hat, AB (CYXH)	H-1
AWOS 124.875 (0345-1245Z‡)	
MF 122.2 (1245-0345Z‡ 5 NM to 5400')	
Midland/Huronia, ON (CYEE)	L-31
Toronto Center App/Dep 124.025	
Miramichi, NB (CYCH)	H-11E, L-32
Moncton Center App/Dep Con 123.7	
Moncton/Greater Moncton Intl, NB (CYQM)	H-11E, L-32
ATIS 128.65	
App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8	
Apron Advisory 122.075	L-320
Mont-Laurier, QC (CSD4) Montroal Contar Ann (Don Con 126 E7)	L-32
Montreal Center App/Dep Con 126.57 Montreal Intl (Mirabel), QC (CYMX)	H-11C, 12K, L-32
ATIS 125.7	11–110, 1211, 1–021
Montreal Center App Con 124.65 132.85 268.3	
Montreal Dep Con 132.85	
MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15	
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL)	H-11C, 12K, L-32
ATIS 133.7	
A113 133.1	
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3	
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3	
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075	
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE)	H-11C, L-32
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15	H-11C, L-32
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU)	H-11C, L-32
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9	H-11C, L-32
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar	H-11C, L-32
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15	
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/S-Hubert, 0C (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, 0N (CYQA)	
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575	
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QM (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900')	H-11B, L-31
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Manaimo, BC (CYCD)	H-11B, L-31
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/S-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Ianaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500')	H-11B, L-31 H-1B, L-1
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Manaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') North Bay, QN (CYYB)	H-11B, L-31 H-1B, L-1
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Manaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') Jorth Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡)	H-11B, L-31 H-1B, L-1
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Manaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') Morth Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25	H-11B, L-31 H-1B, L-1
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Manaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') Jorth Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')	H-11B, L-31 H-1B, L-1 H-11B, L31
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Janaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') Jorth Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')	H-11C, L-32 H-11B, L-31 H-11B, L-1 H-11B, L31
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, DN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Manaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') North Bay, ON (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000') Ushawa, DN (CYOO) ATIS 125.675 (1130-0330Z‡)	H-11B, L-31 H-1B, L-1 H-11B, L31
Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Janaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') Jorth Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')	H-11B, L-31 H-1B, L-1 H-11B, L31

CILITY NAME	CHART & PANEI
Ottawa/Carp, ON (CYRP)	L-31E, 32F
ATIS 121.15	
Ottawa Trml App/Dep Con 128.175 252.5	
Ottawa/Gatineau, QC (CYND)	H-11C, L-320
Ottawa Trml App/Dep Con 127.7 128.175 252.5	
MF 122.3 (5 NM shape irregular to 2500')	
VFR Advisory Ottawa Trml 127.7	
Ottawa/MacDonald-Cartier Intl, ON (CYOW)	L-110
ATIS 121.15	
Ottawa App Con 135.15 Tower 118.8 120.1 341.3	
Gnd Con 121.9 Clnc Del 119.4	
Ottawa Dep Con 128.175	
Owen Sound/Billy Bishop Rgnl, ON (CYOS)	L-31[
Toronto Center App/Dep 132.575 290.6	
Pelee Island, ON (CYPT)	L-301
Cleveland Center App/Dep Con 126.35 360.0	
Pembroke, ON (CYTA)	H-11C, L-31E, 32
Montreal Center App/Dep Con 135.2	
Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z‡, OT PPR)	
Penticton, BC (CYYF)	H-1I
Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100')	
Peterborough, ON (CYPQ)	H-11B, L-31E, 32
AWOS 126.925	
Toronto Center App/Dep 134.25	
Pincher Creek, AB (CZPC)	H-11
Edmonton Center App/Dep Con 132.75 265.2	
Pitt Meadows, BC (CYPK)	L-1
ATIS 125.0 (1500-0700Z‡)	
Vancouver Center App Con 128.6 352.7 (Outer)	
Pitt Tower 126.3 (1500-0700Z‡) Gnd Con 123.8	
Vancouver Center Dep Con 132.3 363.8 (South)	
MF 126.3 (0700-1500Z‡) (3NM to 2500')	
Quebec/Jean Lesage Intl, QC (CYQB)	H-11D, L-32H
ATIS 134.6	
Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8	
(185.65 Quebec Twr VFR acft at or below 3000') Tower 118.65 236.6	
Gnd Con 121.9 250.0	
Riviere Du Loup, QC (CYRI)	H-11I
AWOS 122.025 (Pvt)	
Montreal Center App/Dep Con 125.1 299.6	
Rouyn Noranda, QC (CYUY)	H-11
Montreal Center App/Dep Con 125.9	
MF 122.2 (5 NM to 4000')	
Saint John, NB (CYSJ)	H-11E, L-32
Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')	
Sarnia (Chris Hadfield), ON (CYZR)	H-10G, 11B, L-30
Toronto Center 134.375	
Sault Ste Marie, ON (CYAM)	H-2K, L-31
ATIS 133.05 (1300-0100Z‡)	
Toronto Center App/Dep Con 132.65 344.5	
Tower 118.8 (1300-0100Z‡) Gnd Con 121.7	
MF 118.8 (0100–1300Z‡ 5 NM irregular shape to 3000')	
Sherbrooke, QC (CYAM)	H-11D, L-32I
AWOS 126.25	,
Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800')	
South Renfrew Muni, ON (CNP3)	L-31E, 32
Montreal Center App/Dep 124.275	L-O1L, 32
Southport, MB (CYPG)	H-2I
	Π-21
ATIS 120.85 (Mon–Fri 1400–2300Z‡ except holidays)	
Tower 126.2 384.2 (Mon-Fri 1400–2300Z‡ except holidays)	
Gnd Con 121.7 275.8	

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CILITY NAME Springwater Barrie Airpark, ON (CNA3)	CHART & PANE L-31
Toronto Center App/Dep Con 124.025	2 01
St. Catherines/Niagara District, ON (CYSN)	H-10H, 11B, L-31
ATIS 128.525 (1215-0200Z‡)	
Toronto Trml App/Dep Con 133.4 253.1	
MF 123.25 (1215-0200Z‡ 5 NM to 3300')	
St. Frederic, QC (CSZ4)	L-32
Montreal Center App/Dep Con 135.025 270.9	
St. Georges, QC (CYSG)	H-32H, L-11
Montreal Center App/Dep Con 132.35	
MF 122.15 (5 NM 3900' ASL)	
St. Jean, QC (CYJN)	L-32
Montreal Center App/Dep Con 125.15 268.3	
Tower 118.2 (Apr-Oct 1230-0230Z‡ Nov-Mar 1300-0200Z‡)	
Gnd Con 121.7	
Sudbury, ON (CYSB)	H-31B, 10G, L-31
ATIS 127.4	
Toronto Center App/Dep Con 135.5	
MF 125.5 (7 NM to 4000')	
Summerside, PE (CYSU)	H-11E, L-3
AWOS 122.55 (Pvt)	
Moncton Center App/Dep Con 124.4 384.8	
Thunder Bay, ON (CYQT)	H-2J, L-1
ATIS 128.8 (1100-0400Z‡)	
Winnipeg Center App/Dep Con 132.125 (0400–1100Z‡)	
Tower 118.1 (1100–0400Z‡) Gnd Con 121.9	
App/Dep 119.2 MF 118.1 (0400-1100Z‡ 5 NM to 4000')	
Timmins, ON (CYTS)	H-11
ATIS 124.95 (1000–0500Z‡)	
Toronto Center App/Dep Con 128.3 226.3 MF 122.3 (5 NM to 4000')	
Toronto/Buttonville Muni, ON (CYKZ)	L-31
ATIS 127.1 (1200–0400Z‡)	
Toronto Center App Con 133.4 Toronto Center Dep Con 133.4	
Tower 124.8 119.9 (1200–0400Z‡) Gnd Con 121.8	
MF 124.8 (0400–1200Z‡ No gnd station. 5 NM shape irregular to below 2500')	L-31
Toronto/City Centre, ON (CYTZ)	L-3.
ATIS 133.6 (1130–0400Z‡)	
App Con 133.4 Dep Con 133.4	
Tower 118.2 119.2 (1130–0400Z‡) Gnd Con 121.7 Toronto/Lester B Pearson Intl, ON (CYYZ)	H-11B, L-31
ATIS 120.825	11=11B, L=31
App Con 124.475 125.4 132.8 Dep Con 127.575 128.8	
Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9	
Cinc Del 121.3 (1200–0400Z‡) VFR Advisory 119.3 133.4	
Trenton, ON (CYTR)	H-11C, L-31E, 32
ATIS 135.45 257.7	11–110, 1–311, 32
App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8	
Cinc Del 124.35 286.4	
Trenton/Mountain View, ON (CPZ3)	H-11C, L-31E, 32
Trenton Mil Advisory 268.0	11–110, 1–311, 32
Trois-Rivieres, QC (CYRQ)	H-11C, L-32
Montreal Center App/Dep Con 128.225 229.2	11–110, L–32
MUNICAL CENTER APP/ DEP CON 120.223 223.2	
ME 122.0 (5 NM to 2200/)	
MF 123.0 (5 NM to 3200')	L 11
Val-D'or, QC (CYVO)	H-11
Val-D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3	H-11
Val-D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030-0325Z‡ 5 NM to 4000')	
Val-D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030–0325Z‡ 5 NM to 4000') Vancouver Intl, BC (CYVR)	
Val-D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030–0325Z‡ 5 NM to 4000') Vancouver Intl, BC (CYVR) ATIS 124.6 124.75	
Val-D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030-0325Z‡ 5 NM to 4000') Vancouver Intl, BC (CYVR) ATIS 124.6 124.75 App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner)	
Val-D'or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030–0325Z‡ 5 NM to 4000') Vancouver Intl, BC (CYVR) ATIS 124.6 124.75	H-11 H-1B, L-1

ACILITY NAME	CHART & PANEL
Victoria Intl, BC (CYYJ)	H-1B, L-1E
ATIS 118.8 (1400-0800Z‡)	
App Con 125.95 308.4 Dep Con 133.85 308.4	
Tower 119.1 (Outer) 119.7 (Inner) 239.6	
Gnd Con 121.9 361.4 (1400-0800Z‡ OT ctc Kamloops 119.7)	
Clnc Del 126.4 (1400-0800Z‡)	
Victoriaville, QC (CSR3)	L-32H
Montreal Center App Con 132.35	
Waterville/Kings Co Muni, NS (CCW3)	L-32J
Greenwood Trml App/Dep Con 120.6 335.9	
Greenwood Tower 119.5 324.3	
Wiarton, ON (CYVV)	H-11B, L-31D
Toronto Center App/Dep Con 132.575	
MF 122.2 (5 NM to 3700')	
Windsor, ON (CYQG)	H-10G, L-8J
ATIS 134.5 (1130–0330Z‡)	
Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2	
Tower 124.7 (1130–0330Z‡) Gnd Con 121.7	
MF 124.7 (0330–1130Z‡ 6 NM irregular shape to below 3000')	
VFR Advisory Detroit App Con 134.3	11 445 1 001
Yarmouth, NS (CYQI) Monoton Contar Ann (Don Con 123 0 368 F. ME 123 0 (E NIM to 2100))	H-11E, L-32I
Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	
MEXICO	
CILITY NAME	CHART & PANEL
Abraham Gonzalez Intl (MMCS)	H-4K, L-6F
Juarez App Con 119.9 Juarez Tower 118.9	
Del Norte Intl (MMAN)	H-7B, L-20G
ATIS 127.55 (1300-0300Z‡)	
Monterrey App 119.75 120.4 Tower 118.6	
Durango Intl (MMDO)	H-7A
ATIS 132.1	
Tower 118.1 Durango Info 122.3	
General Abelardo L Rodriguez Intl (MMTJ)	H-4H, L-4H
ATIS 127.9	
Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Clnc Del 122.35	
Tijuana Info 132.1	
General Lucio Blanco Intl (MMRX)	H-7B, L-20H
Reynosa App Con 118.8 Reynosa Tower 118.8	
General Mariano Escobedo Intl (MMMY)	H-7B, L-20G
ATIS 127.7	
Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9	
General R Fierro Villalobos Intl (MMCU)	L-61
ATIS 127.9	
7110 12710	
Chihuahua App Con 121.0 Chihuahua Tower 118.4	
	H-4H, L-4J, 5A
Chihuahua App Con 121.0 Chihuahua Tower 118.4	H–4H, L–4J, 5A
Chihuahua App Con 121.0 Chihuahua Tower 118.4 General Rodolfo Sanchez Taboada Intl (MMML)	H-4H, L-4J, 5A
Chihuahua App Con 121.0 Chihuahua Tower 118.4 General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 General Servando Canales (MMMA)	
Chihuahua App Con 121.0 Chihuahua Tower 118.4 General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3	
Chihuahua App Con 121.0 Chihuahua Tower 118.4 General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0	H-7C, L-21A
Chihuahua App Con 121.0 Chihuahua Tower 118.4 General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0	H–7C, L–21A H–7B
Chihuahua App Con 121.0 Chihuahua Tower 118.4 General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4	H-7C, L-21A
Chihuahua App Con 121.0 Chihuahua Tower 118.4 General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4	H–7C, L–21A H–7B
Chihuahua App Con 121.0 Chihuahua Tower 118.4 General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3 General Servando Canales (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0 Plan De Guadalupe Intl (MMIO) Saltillo App Con 127.4 Saltillo Tower 118.4 Quetzalcoatl Intl (MMNL)	H–7B

In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

GENERAL INFORMATION

PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

- 1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., 🚳, 🔾, 🔡
- 2. Approach lighting systems that do not bear a system identification are indicated with a negative "🐧" beside the name.

A star (*) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., 0*

To activate lights use frequency indicated in the communication section of the chart with a **0** or the appropriate lighting system identification e.g., UNICOM 122.8 **0**, **\delta**. **\text{ \text{\delta}}**

allon	e.g.,	DIVICOM	122.0	U,	W	v	
KEY	MIKE						

7 times within 5 seconds

5 times within 5 seconds 3 times within 5 seconds

Highest intensity available

Medium or lower intensity (Lower REIL or REIL-off) Lowest intensity available (Lower REIL or REIL-off)

FUNCTION

CHART CURRENCY INFORMATION

FAA procedure amendment number Amdt 11A 99365 Date of latest change Orig 00365

The Chart Date indentifies the Julian date the chart was added to the volume or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

MISCELLANEOUS

- ★ Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- # Indicates control tower temporarily closed UFN.

09071 LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM Runways Helicopter Alighting Areas (H) [H] [H] [A] [H] Other Than Stopways, Taxiways, Displaced Hard Negative Symbols used to identify Copter Procedures Hard Surface Parking Areas, Threshold Surface landing point...... 🕕 🛨 🖪 Water Runways xxx Runway Threshold elevation.....THRE 123 Closed Runway TDZ elevation.....TDZE 123 Closed Meta Under Runway Taxiway Construction Surface --- 0.3% DOWN (shown when runway slope is greater than ARRESTING GEAR: Specific arresting gear systems; or equal to 0.3%) e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to Runway Slope measured to midpoint on runways appropriate DOD publications. 8000 feet or longer. uni-directional bi-directional ₹ Jet Barrier U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of ARRESTING SYSTEM / approximately 7 feet and proximity to edge of runway may create an obstruction for some types REFERENCE FEATURES of aircraft. Buildings..... Approach light symbols are shown in the Tanks..... Flight Information Handbook. Airport digaram scales are variable. True/magnetic North orientation may vary from Radar Reflectors diagram to diagram Control Tower # Coordinate values are shown in 1 or ½ minute Hot Spot increments. They are further broken down into 6 second ticks, within each 1 minute increments. # When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and Positional accuracy within ±600 feet unless otherwise further identified as TWR noted on the chart. Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds All new and revised airport diagrams are shown referif any) but excluding areas designated as stopways. enced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible A D symbol is shown to indicate runway declared with local coordinates published in FLIP. (Foreign Only) distance information available, see appropriate A/FD, Alaska or Pacific Supplement for distance information. Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression. Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 S75, T185, ST175, TT325 PCN 80 F/D/X/U Rwy 2 ldg 8000' **FIELD** Runway Displaced Threshold **ELEV** Slope Runway 174 **EMAS** Identification 1200 X 200 0.7% UP 1000 X 200 9000 X 200 023.2°() Arresting System Operations ELEV Runway End (in feet) 164 Runway Dimensions Runway Heading Elevation (in feet) (Magnetic) Stopway Dimensions (in feet) SCOPE Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex

Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

RALEIGH/DURHAM

RALEIGH-DURHAM INTL (RDU)

AIRPORT DIAGRAMS HOT SPOTS

An "airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

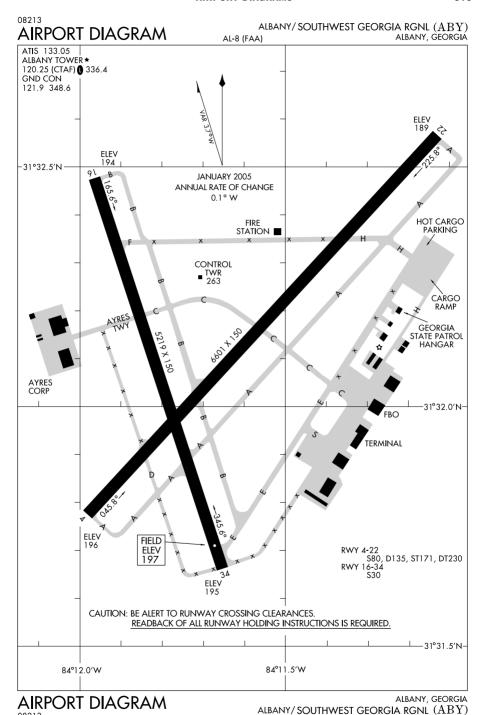
A "hot spot" is a runway safety related problem area on a airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as circles or polygons designated as "HOT¹", "HOT²", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

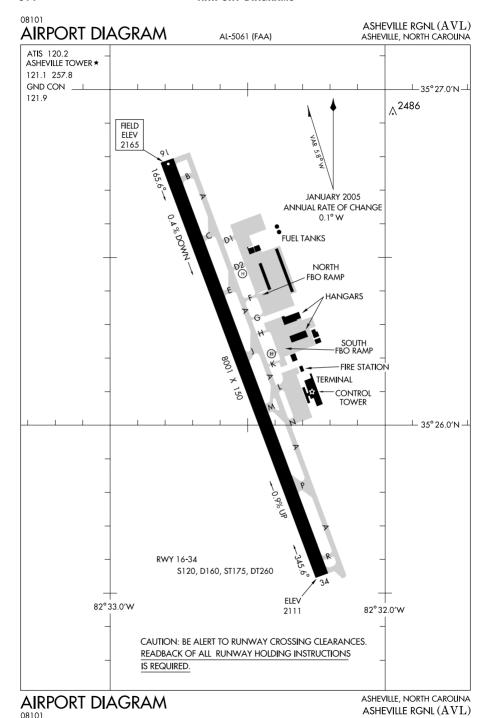
risk has been reduced or eliminated.		
CITY/AIRPORT	HOT SPOT	DESCRIPTION
	ALABAMA	
MONTGOMERY		
MONTGOMERY RGNL	1	
(DANNELY FIELD) (MGM)	HOT ¹	Intersection of Twy A3 and the terminal ramp. Potential confusion of Twy A3 as the taxi route to
		Rwy 10/28.
	HOT ²	Intersection of the Twy A5 and the ANG ramp.
		Potential exiting Rwy 10/28 at Twy A5.
	FLORIDA	
DAYTONA BEACH		
DAYTONA BEACH INTL (DAB)	HOT ¹	Pilots taxiing southbound on Twy W sometimes
		miss the right turn on Twy S and enter the runway without clearance.
MIAMI		without clearance.
MIAMI INTL, FL (MIA)	HOT ¹	Multiple intersections closely spaced.
	HOT ²	Departure taxi out of Spot 15, Spot 14, Spot 13,
		misidentification of Twy P and Twy Q at Twy T has
	HOT ³	lead to rwy incursions onto Rwy 12–30. Twy runway ends in close proximity.
STUART	1101	Twy fullway chas in close proximity.
WITHAM FIELD (SUA)	HOT ¹	Intersecting rwys, wrong rwy departure risk. (Check
	2	rwy alignment.)
	HOT ²	Rwy 12 and Twy A1.
Lancas	GEORGIA	
ATLANTA HARTSFIELD-JACKSON	HOT ¹	Intersections of Twy C and Twy D at Rwy 8L-26R.
ATLANTA INTL (ATL)	1101	Hold short line is only 250 feet after exiting the
, ,		FBO ramp. Rwy hold bar is canted which peaks
	2	towards the twy.
	HOT ²	Intersections of Twy C and Twy D at Rwy 8R–26L. Caution transitioning between the parallel rwys. Rwy
		hold bar is canted which peaks towards the twy.
		Rwy hold short line is only 380 feet away after
		exiting Rwy 8L–26R and 70 feet south of the Twy B
	HOT ³	centerline.
	HUT	Intersection of Twy H at Rwy 8R–26L. Aircraft travelling westbound for the Twy V end–around,
		mistakenly turn southbound on Twy H and enter Rwy
	4	8R-26L.
	HOT ⁴	Intersection of Twy D at Rwy 9L–27R. Aircraft
		southbound on Twy D fail to turn on Twy L and Twy M and enter Rwy 9L–27R. Aircraft crossing Rwy
		9L–27R at Twy D southbound to Twy K must turn 45
		degrees left immediately after crossing the rwy hold
		bar.
AUGUSTA AUGUSTA RGNL AT BUSH FLD (AGS)	HOT ¹	Intersection of Twy E and Rwy 17/35.
AUGUSTA RUNL AT DUSH FLD (AUS)	NORTH CAROL	
CHARLOTTE	NUKIN GAKUL	INA
CHARLOTTE/DOUGLAS INTL (CLT)	HOT ¹	Confusing intersection due to convergence of
, , , , , , , , , , , , , , , , , , , ,		Twy R, Twy A, Twy C and Twy C9, along with grass
		taland.

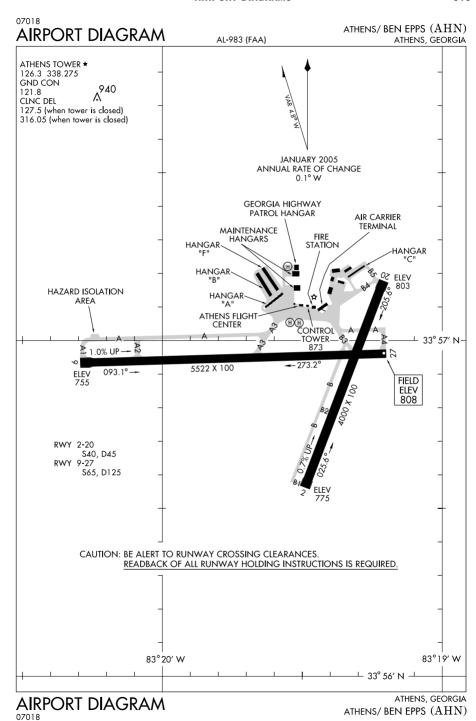
HOT1

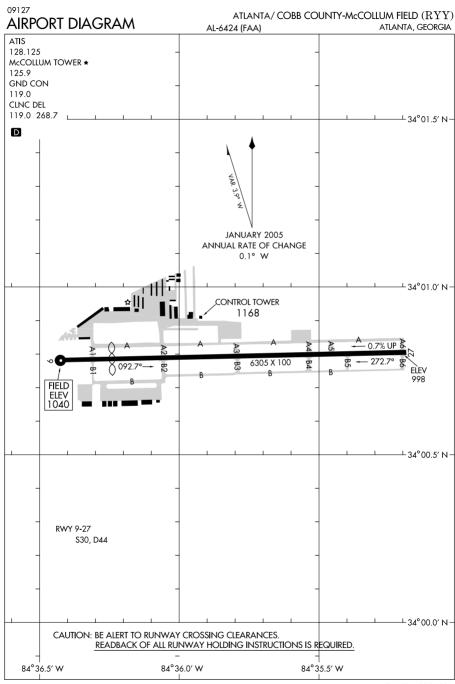
island.

Intersection of Rwy 5R/23L and Twy C.

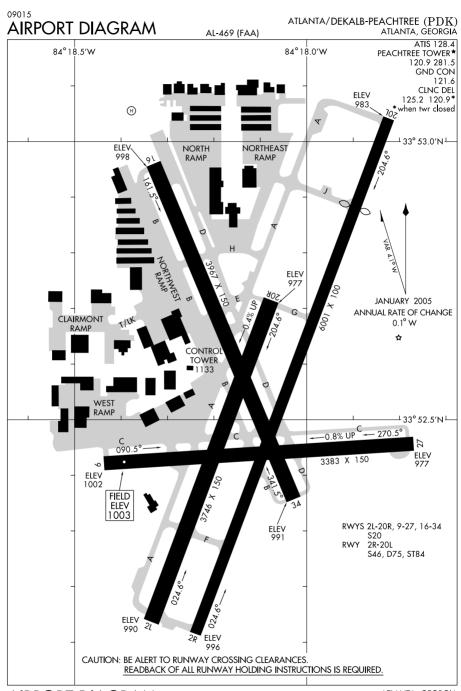




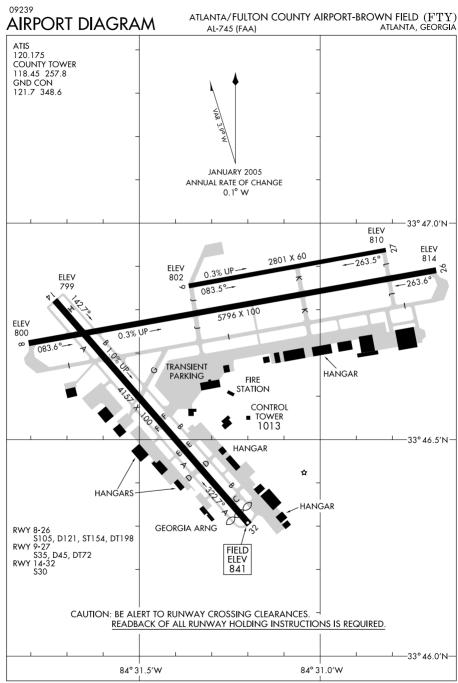




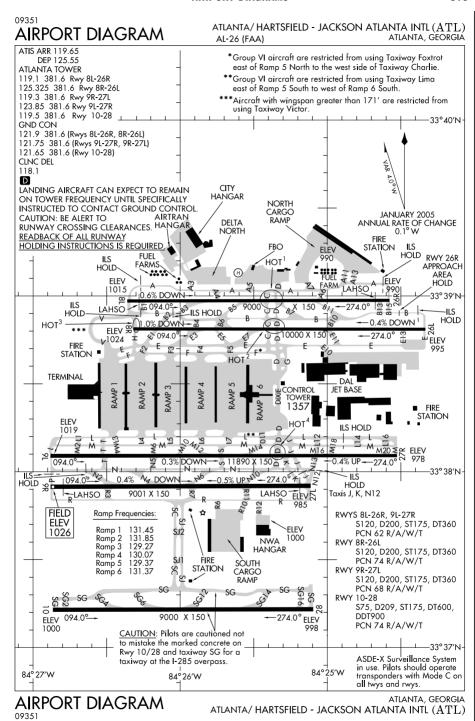
 $\begin{array}{c} \text{ATLANTA, GEORGIA} \\ \text{ATLANTA/ COBB COUNTY-McCOLLUM FIELD } (RYY) \end{array}$

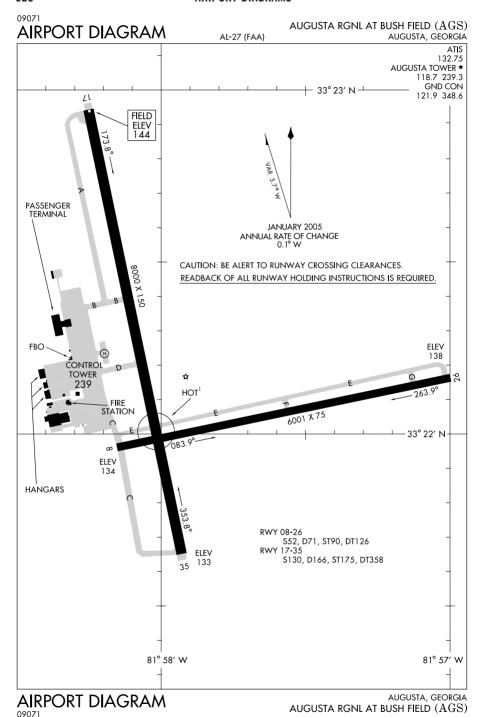


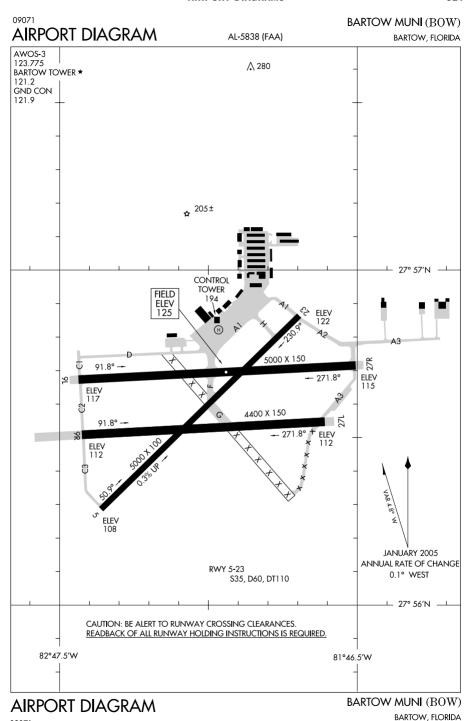
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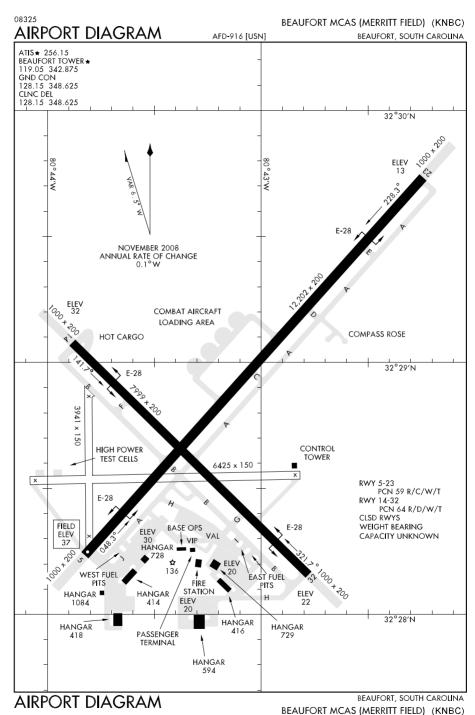
 $\begin{array}{c} \text{ATLANTA, GEORGIA} \\ \text{ATLANTA/FULTON COUNTY AIRPORT-BROWN FIELD } (FTY) \end{array}$



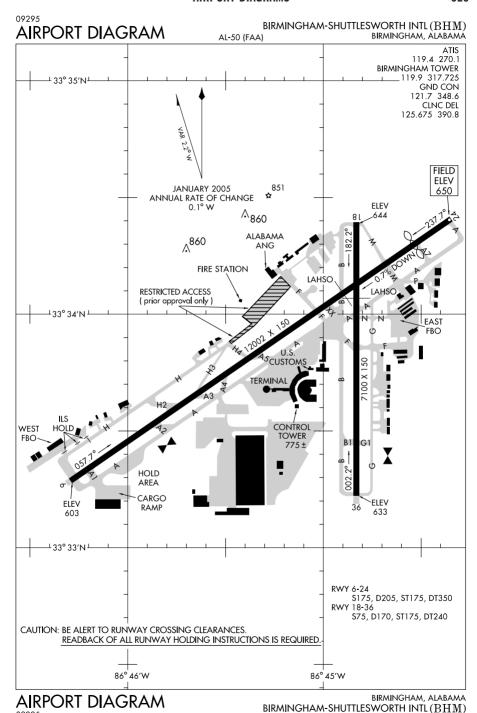




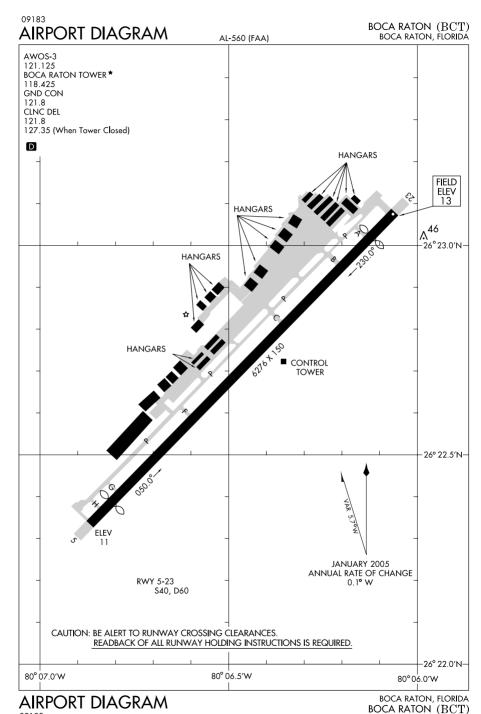
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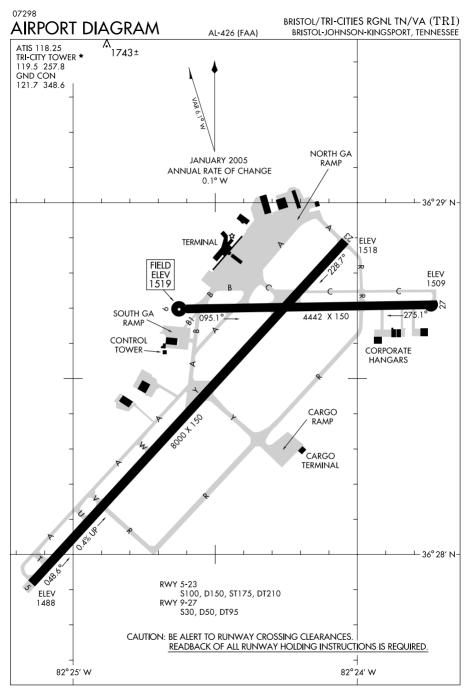


SE, 17 DEC 2009 to 11 FEB 2010

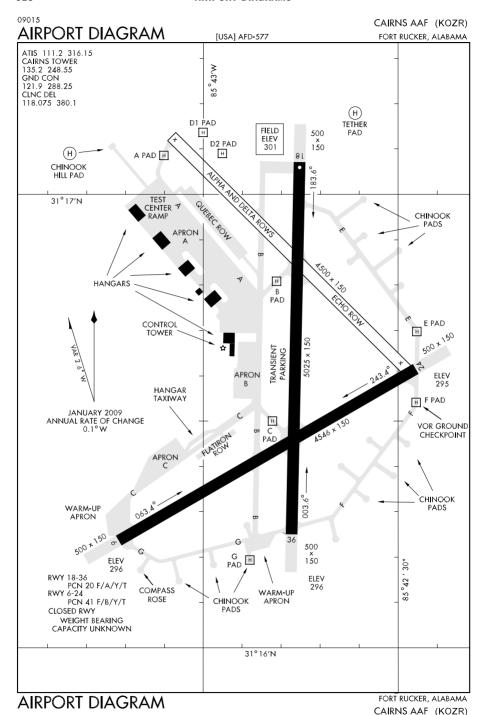


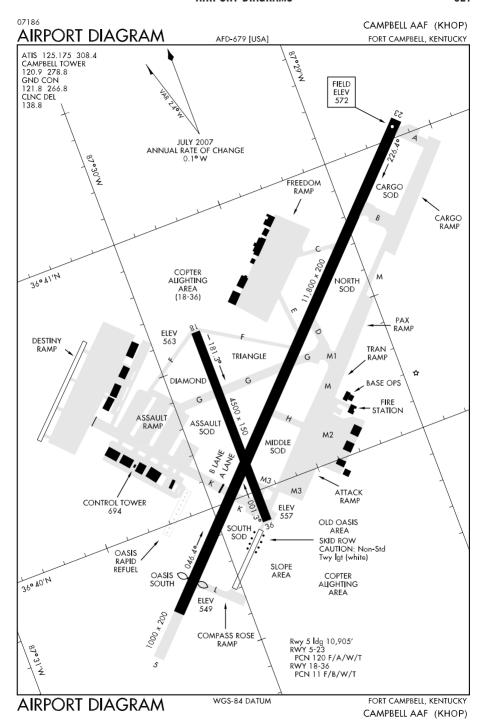
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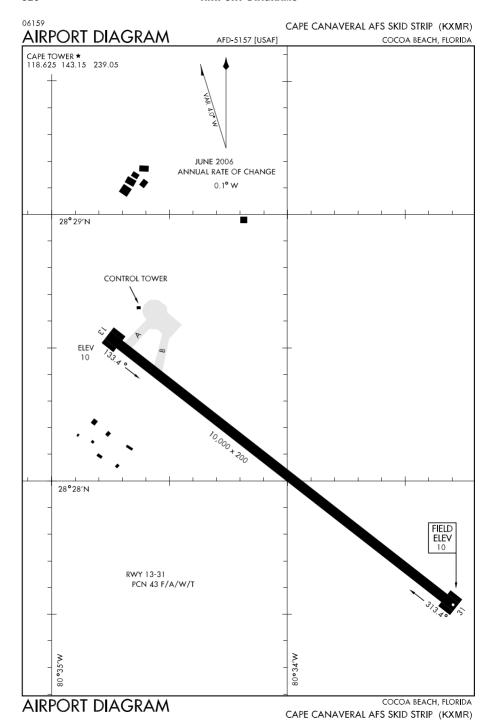


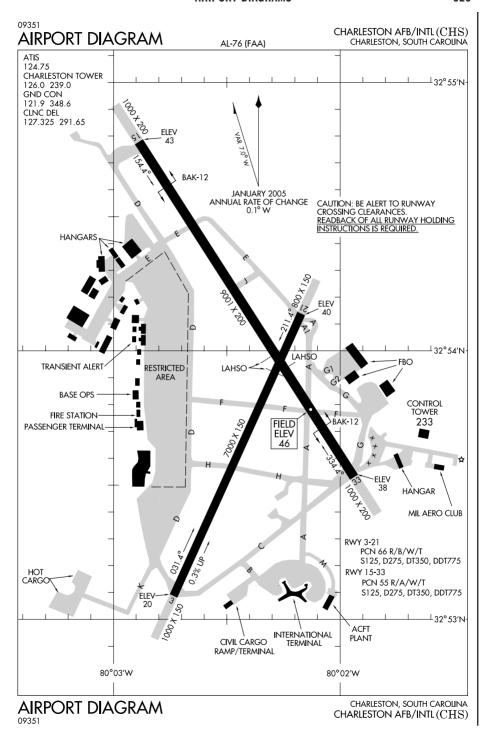


BRISTOL-JOHNSON-KINGSPORT, TENNESSEE BRISTOL/TRI-CITIES RGNL TN/VA $(TR\,I)$

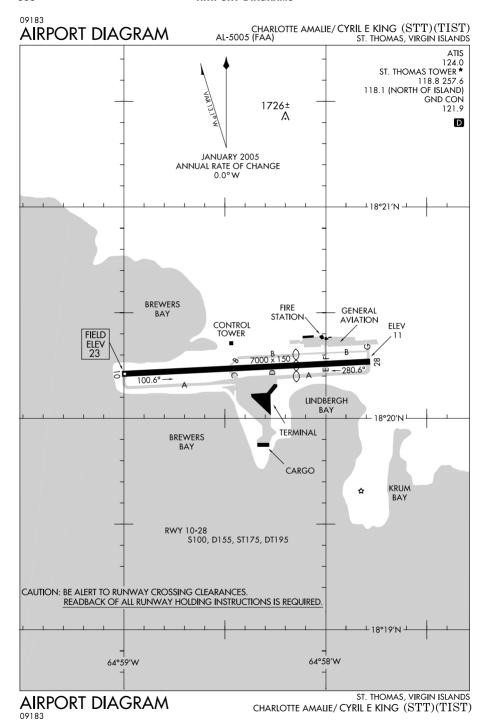


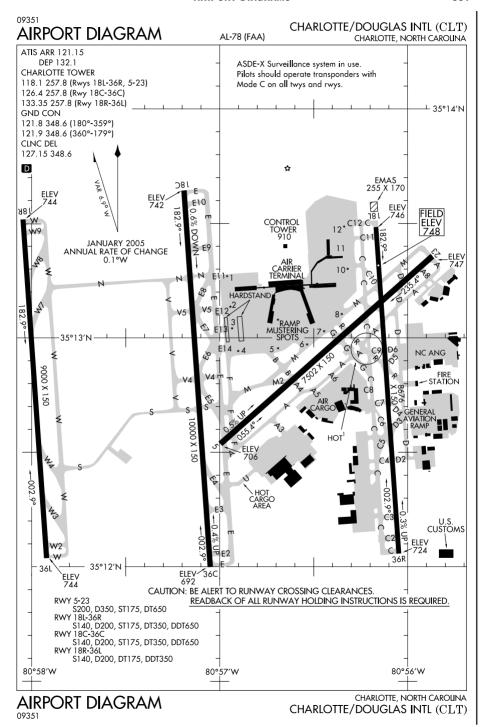


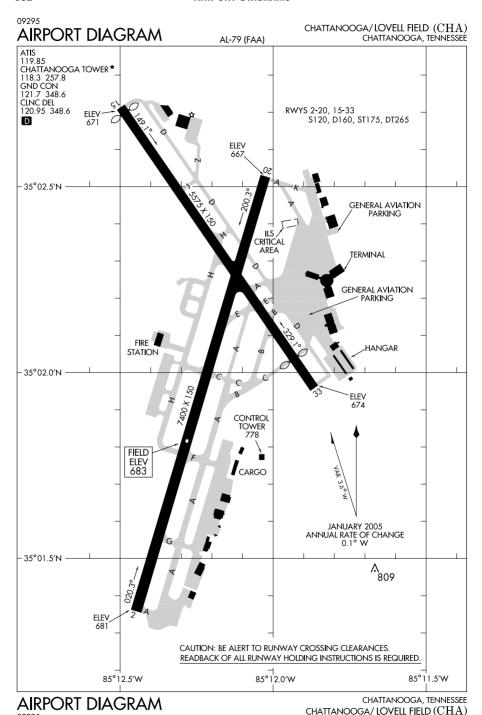


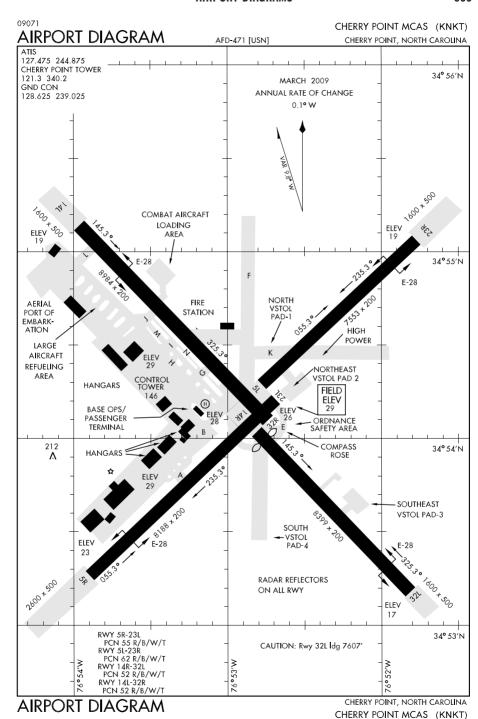


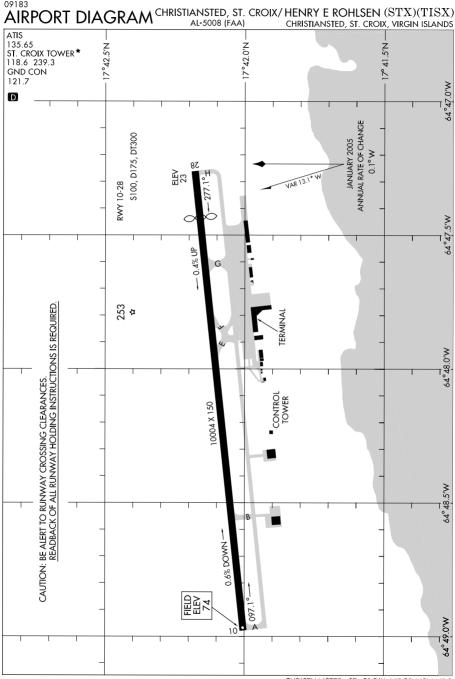
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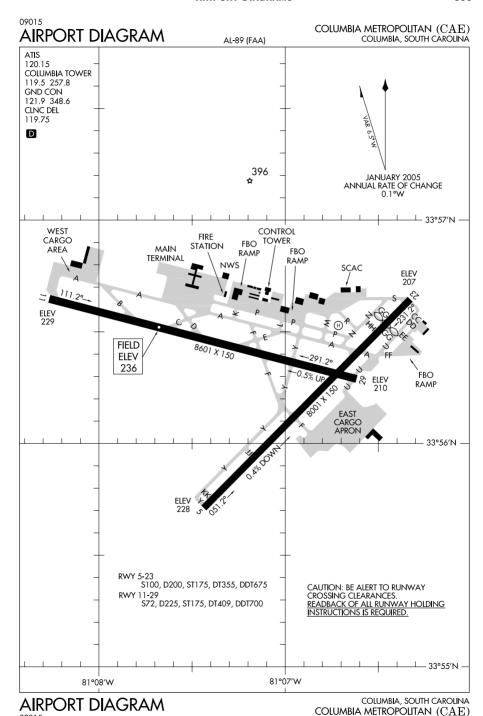


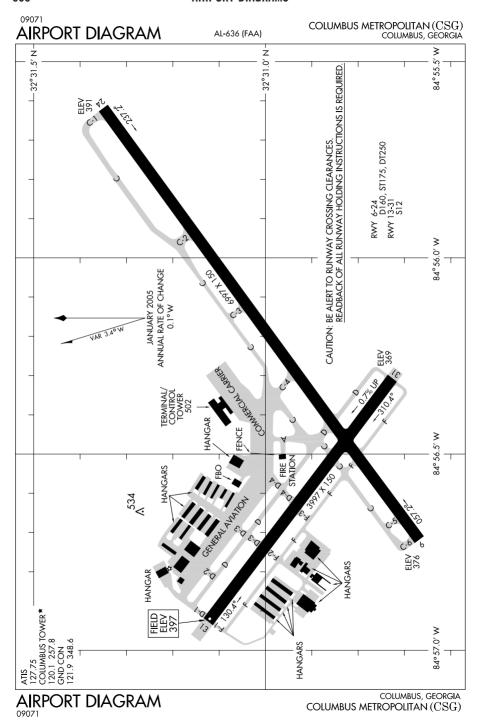




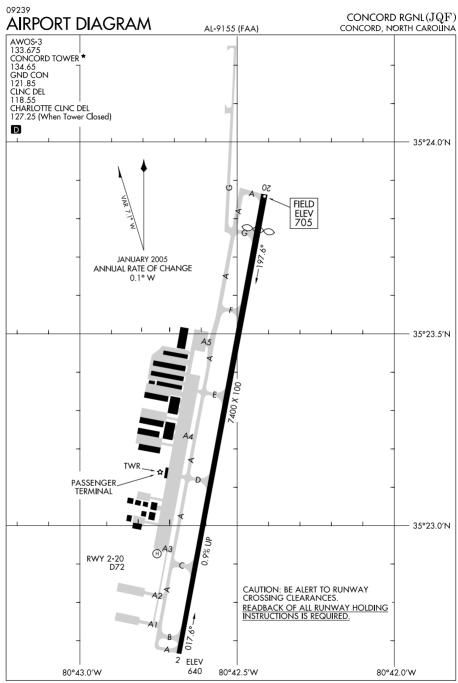


CHRISTIANSTED, ST. CROIX/ HENRY E ROHLSEN (STX)(TISX)

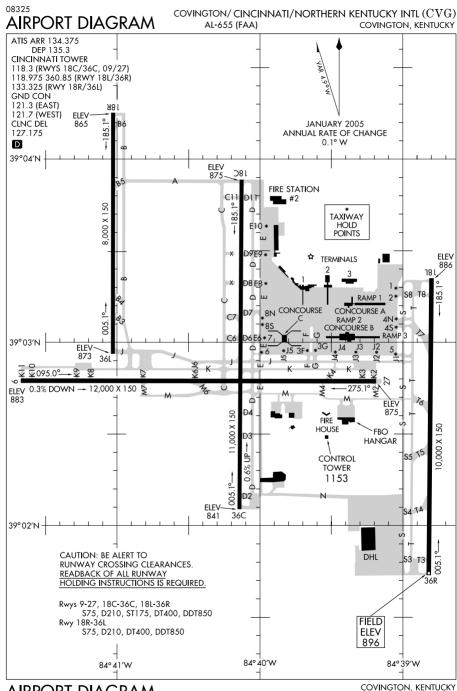




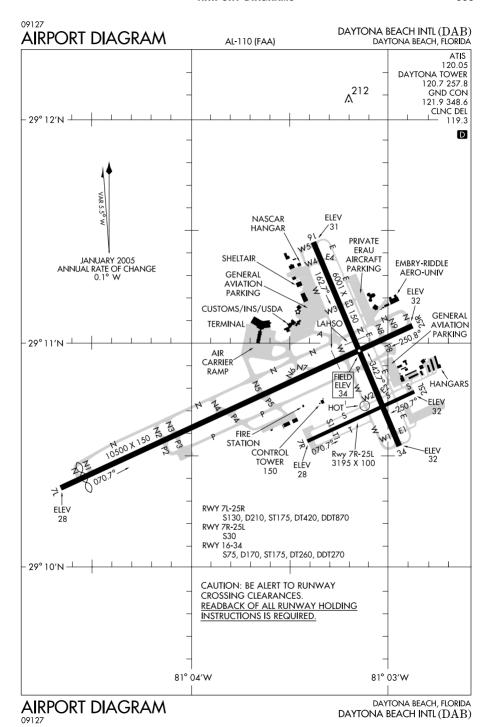
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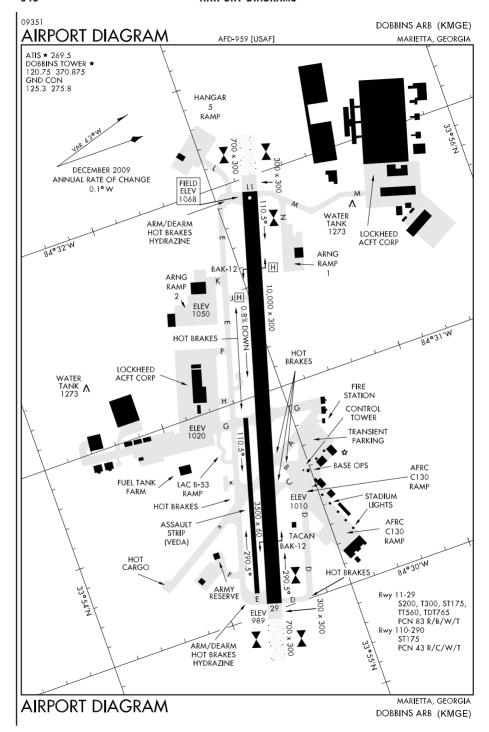


concord, north carolina concord rgnl $(JQF)\,$



COVINGTON/ CINCINNATI/NORTHERN KENTUCKY INTL (CVG)

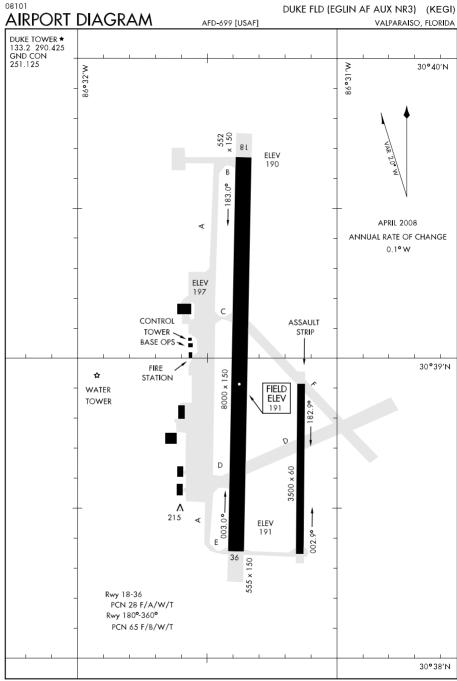




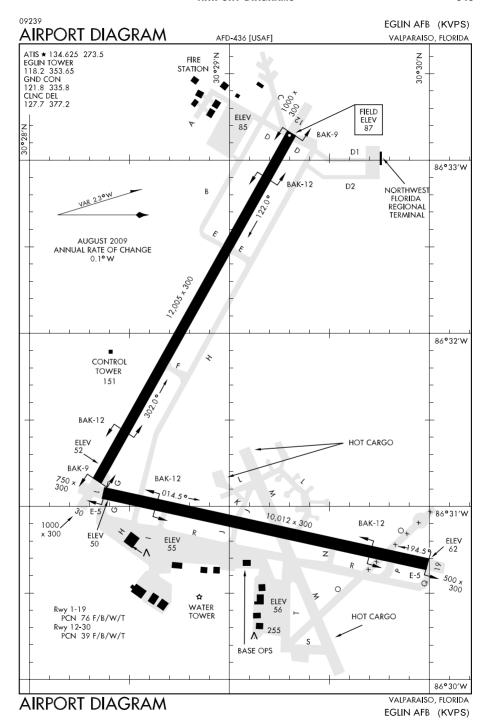
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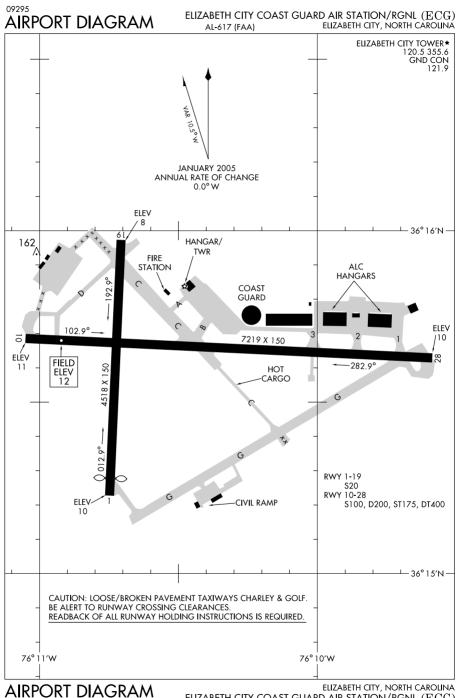
09295 DOTHAN RGNL (DHN) AIRPORT DIAGRAM DOTHAN, ALABAMÁ AL-123 (FAA) ATIS 135.72 CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES DOTHAN TOWER★ READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED. 118.4 257.6 GND CON 121.7 348.6 D ·31° 20′N -RWY 14-32 S75, D105, DT190 PCN 34 F/B/X/T FIELD RWY 18-36 **ELEV** \$75, D105, DT190 401 PCN 30 F/B/X/T **ELEV** 395 182.8° HANGAR 8×08+150 WATER 5500 X 100 TANK FIRE 555 STATION CONTROL TOWER -31° 19′N -TERMINAL 0.3% UP -002.8° ELEV **ELEV** 378 382 В 36 JANUARY 2005 ANNUAL RATE OF CHANGE 0.1° W 85° 27.5′W 85° 27′W 85° 26.5′W AIRPORT DIAGRAM DOTHAN, ALABAMA DOTHAN RGNL (DHN)

09295



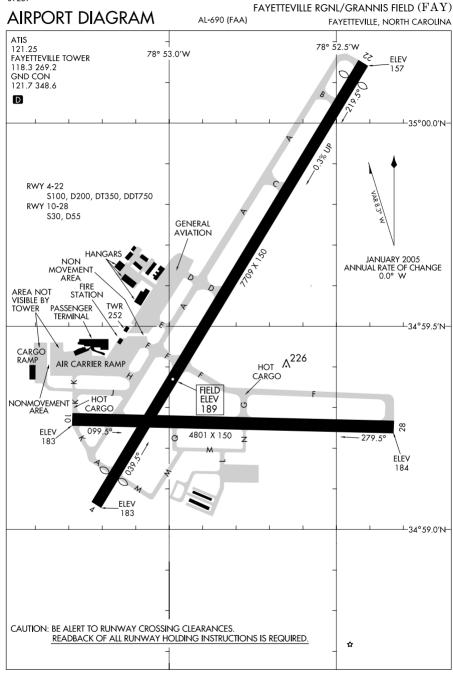
VALPARAISO, FLORIDA DUKE FLD (EGLIN AF AUX NR3) (KEGI)





ELIZABETH CITY COAST GUARD AIR STATION/RGNL (ECG)

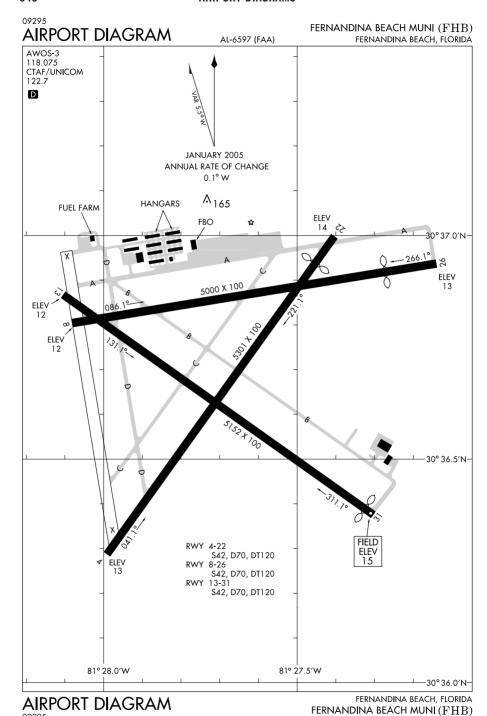
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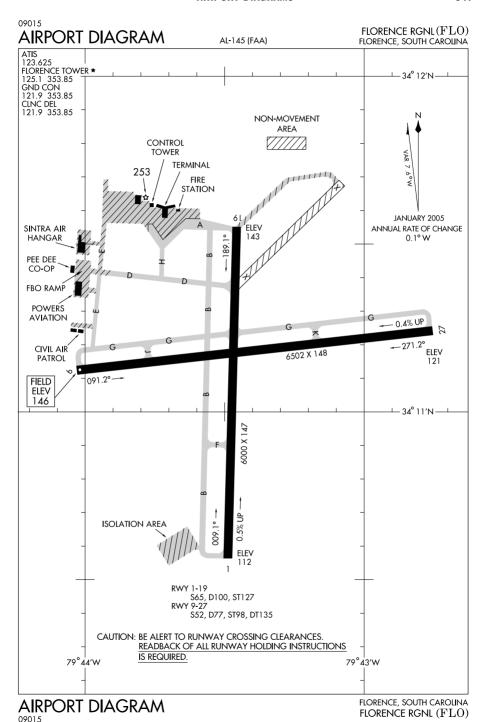


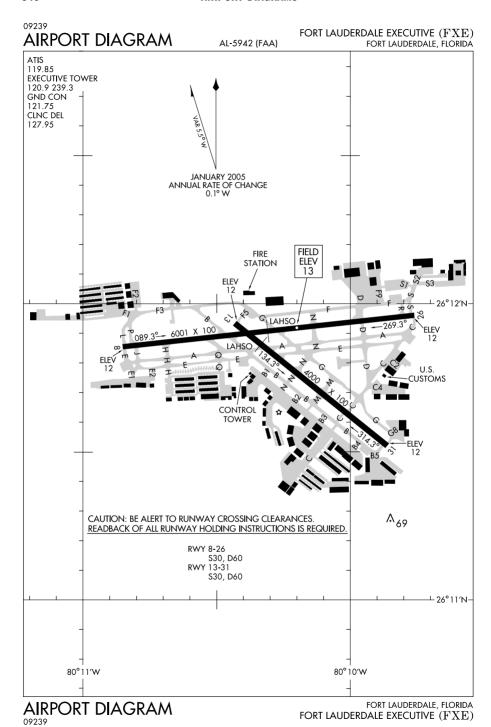
AIRPORT DIAGRAM

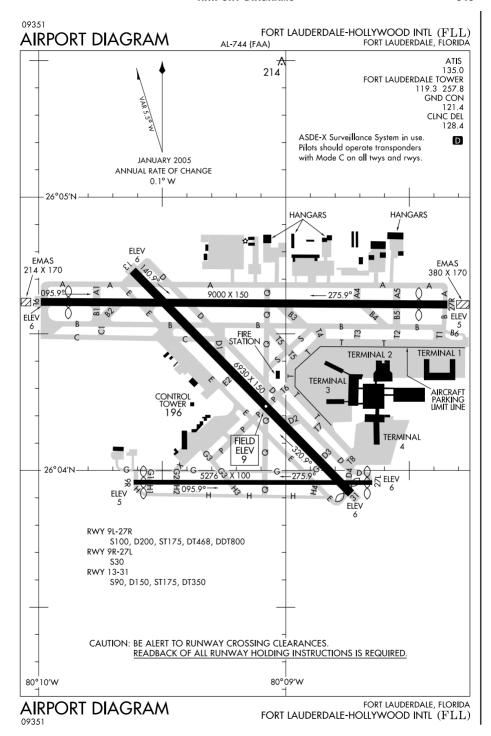
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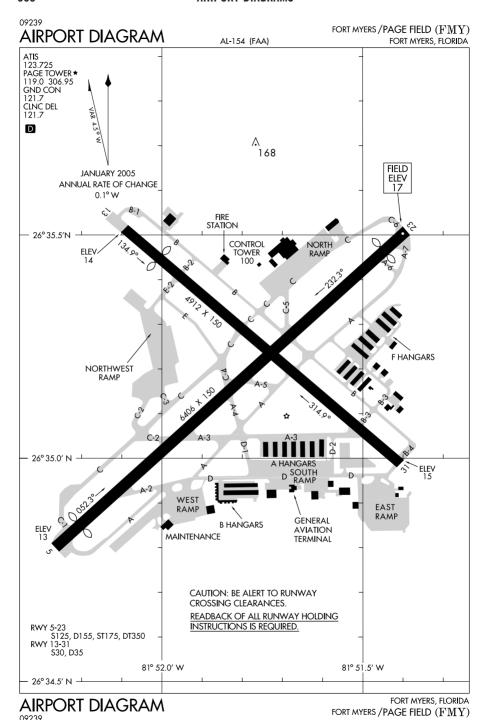
 $\label{eq:fayetteville} \mbox{Fayetteville rgnl/grannis field } (FAY)$

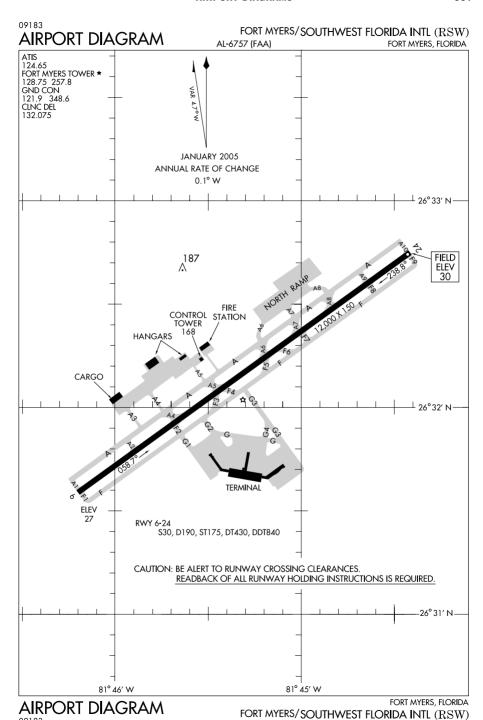


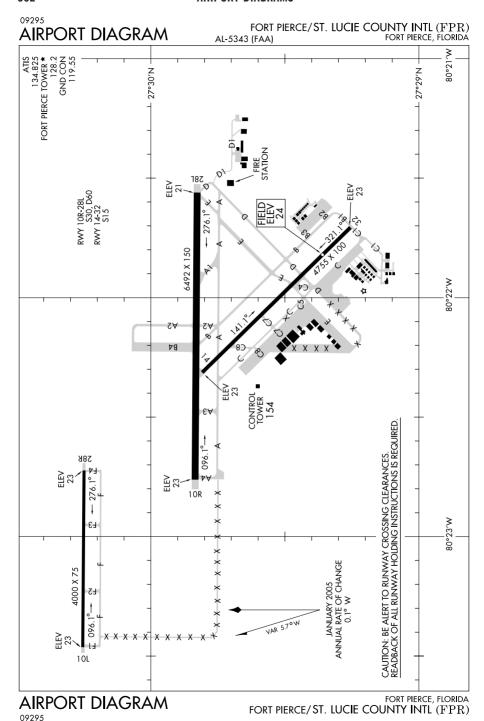


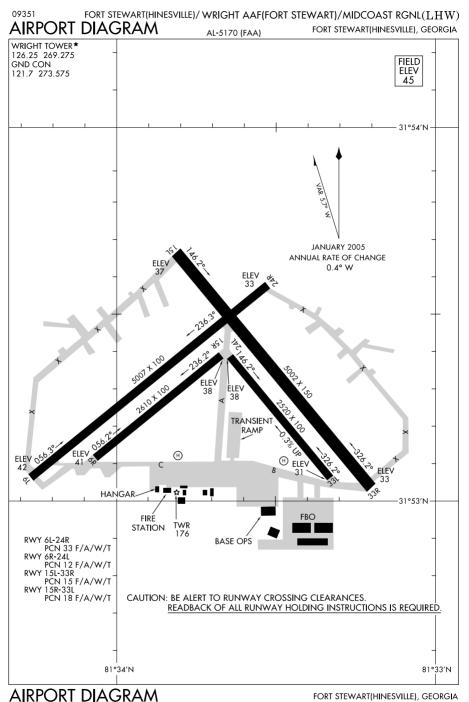




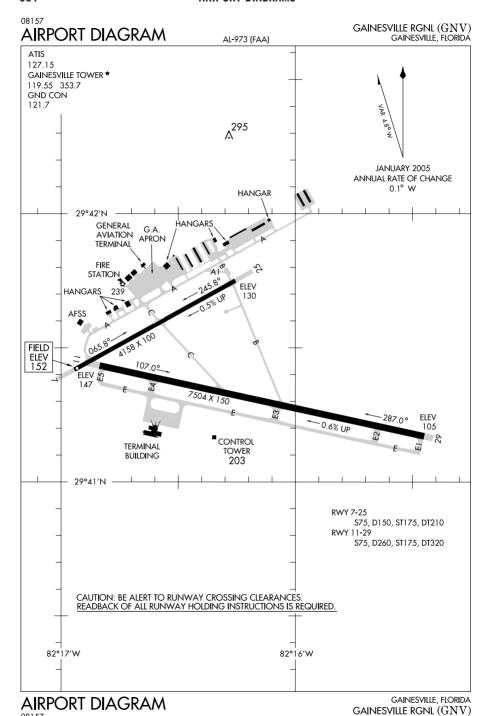


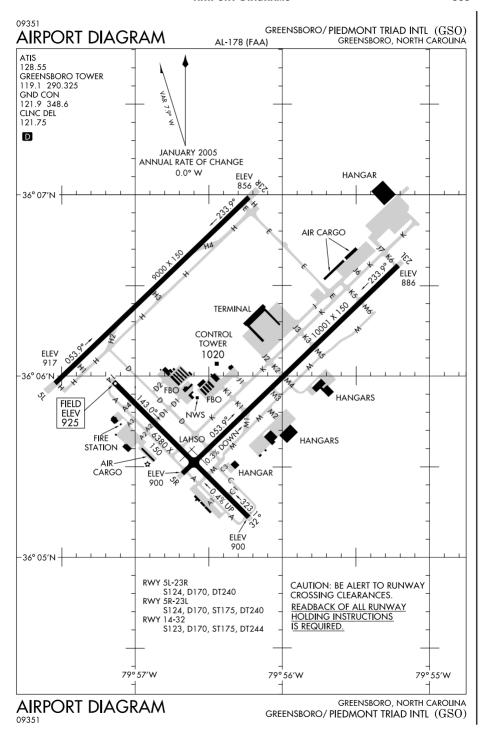


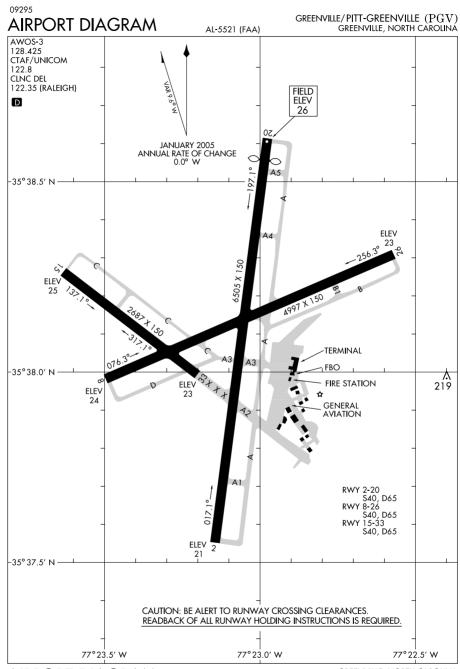




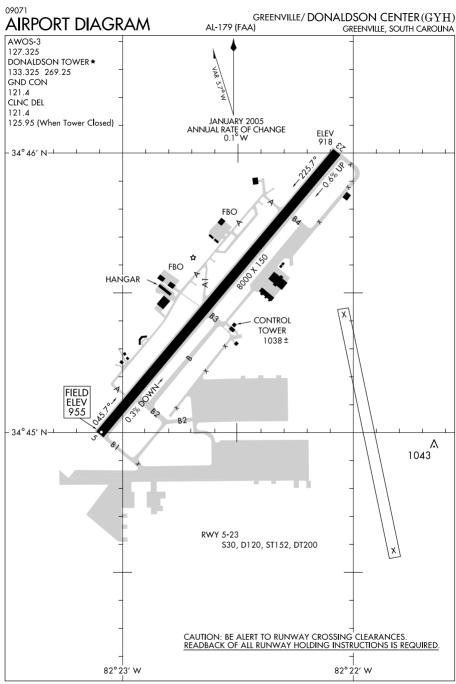
99351 FORT STEWART(HINESVILLE)/ WRIGHT AAF(FORT STEWART)/MIDCOAST RGNL(LHW)



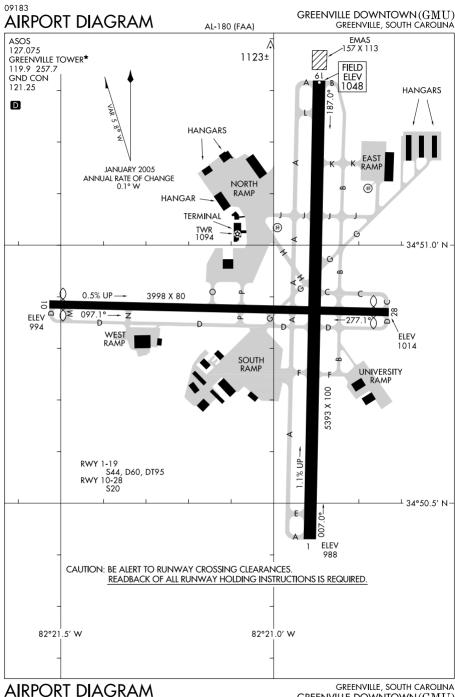




Greenville, north carolina Greenville/Pitt-Greenville (PGV)



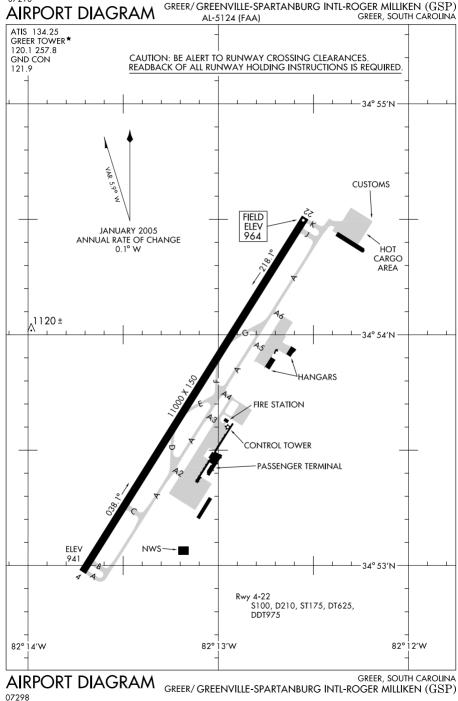
GREENVILLE/ DONALDSON CENTER (GYH)

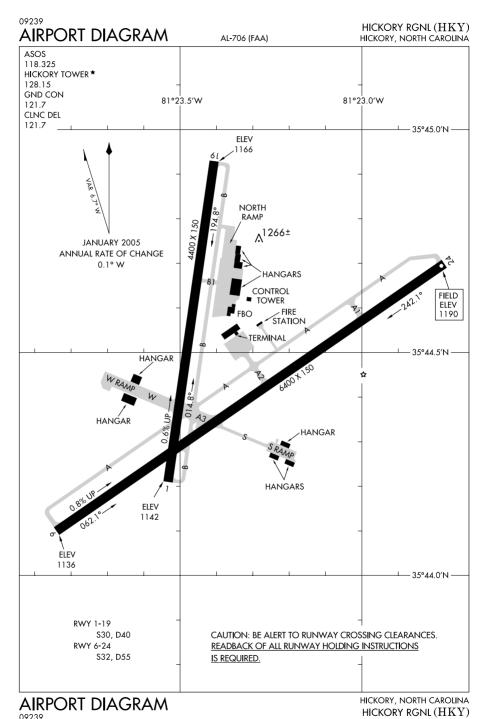


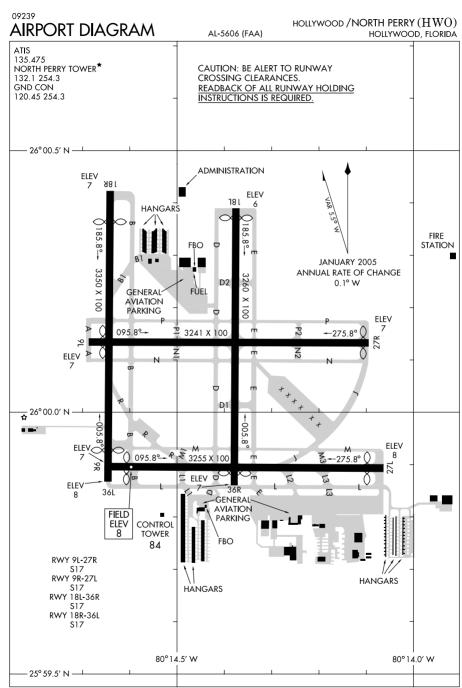
09183

GREENVILLE, SOUTH CAROLINA GREENVILLE DOWNTOWN (GMU) 07298

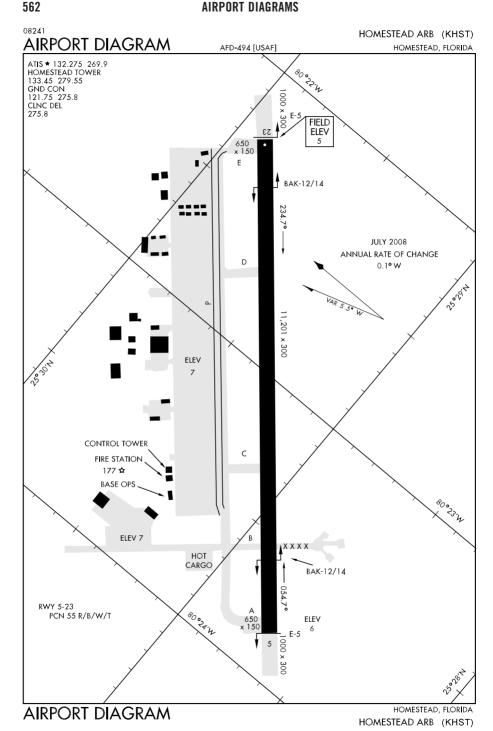
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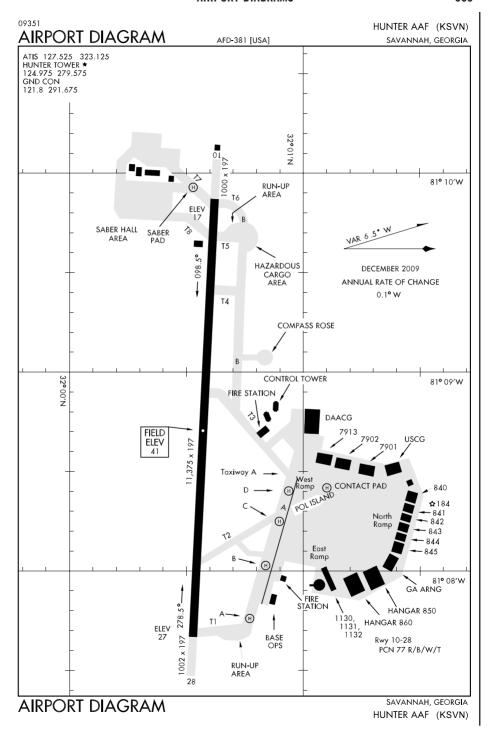


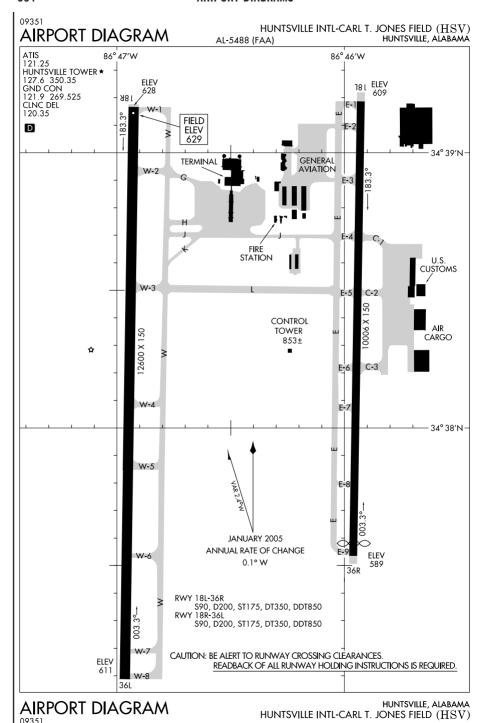


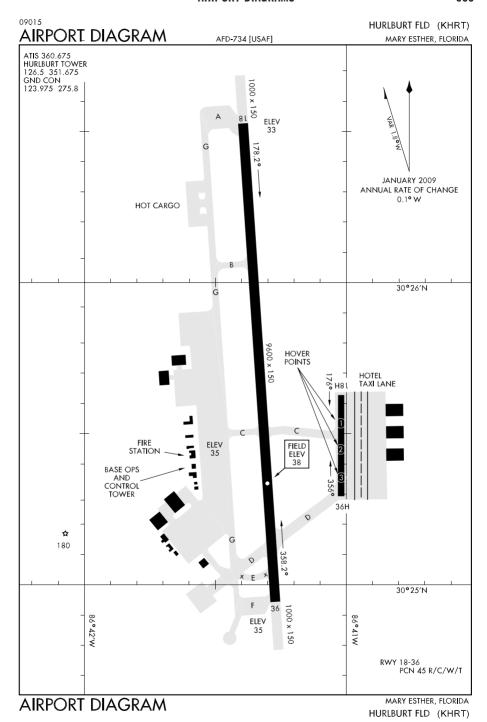


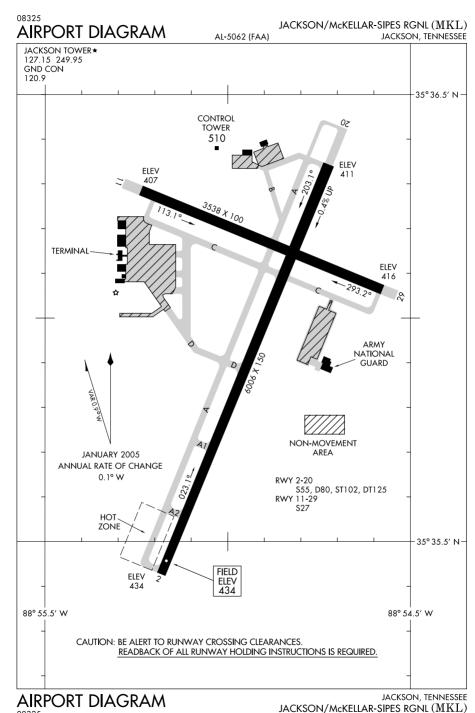
HOLLYWOOD, FLORIDA HOLLYWOOD / NORTH PERRY (HWO)

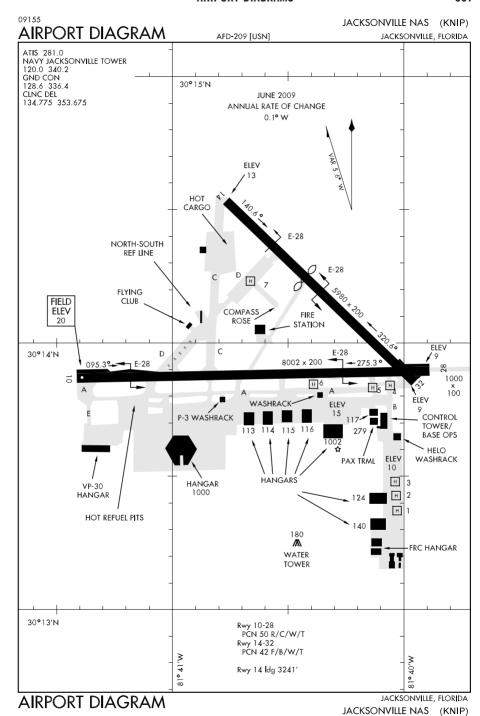


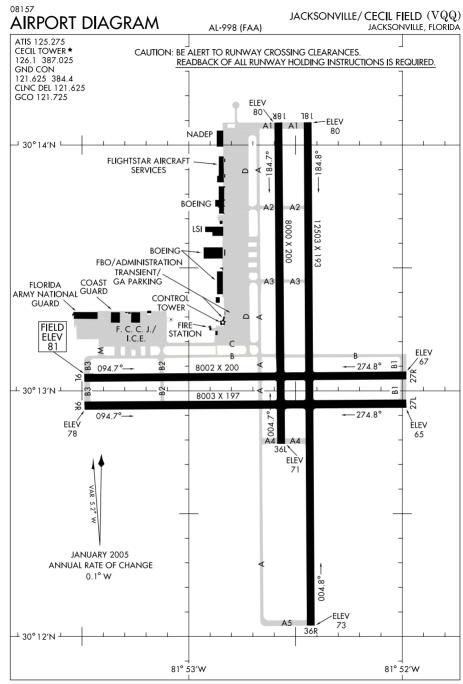




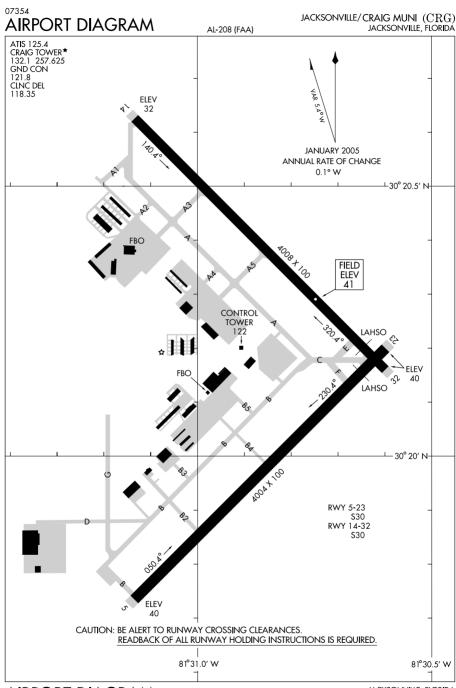




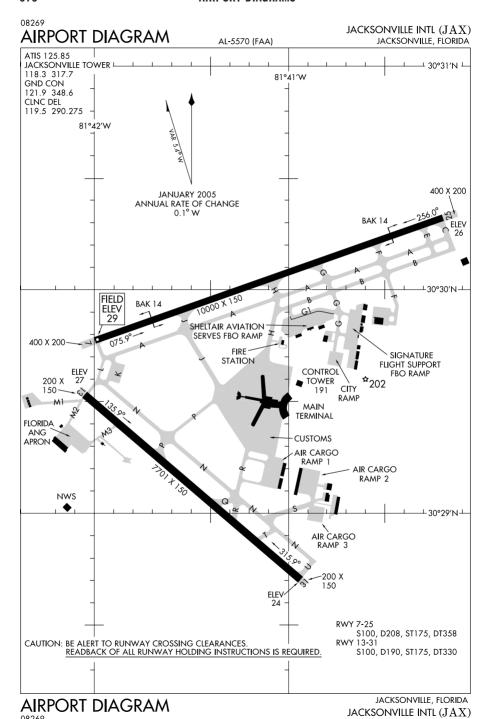


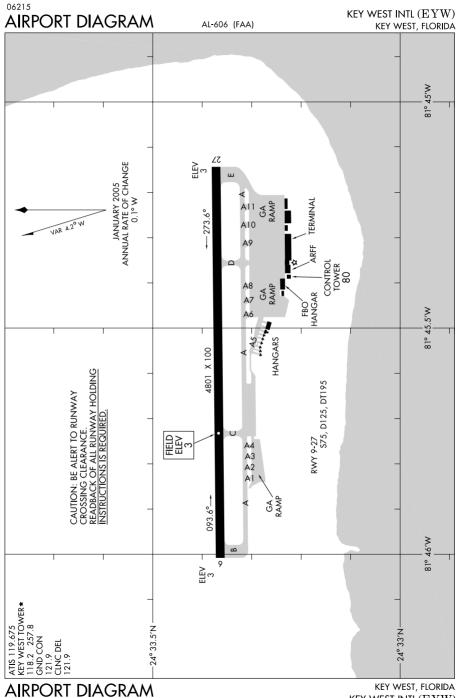


 $\label{eq:jacksonville} \mbox{\sc jacksonville, florida} \\ \mbox{\sc jacksonville/\cecil field} \mbox{\sc ville/\cecil field$



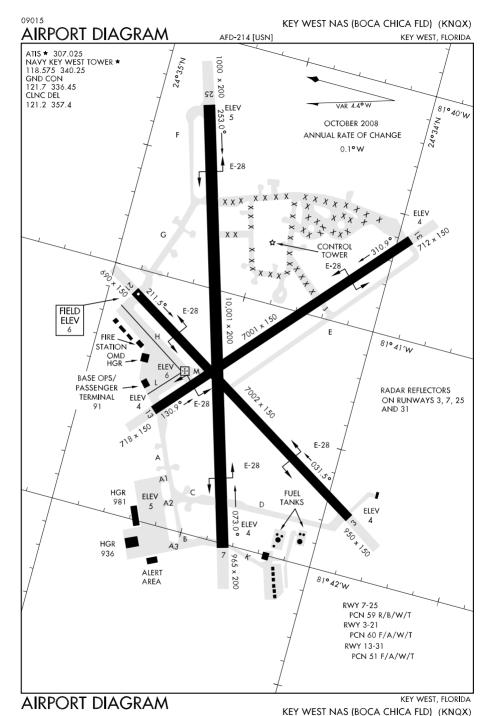
Jacksonville, florida Jacksonville/ \mbox{CRAIG} muni (CRG)

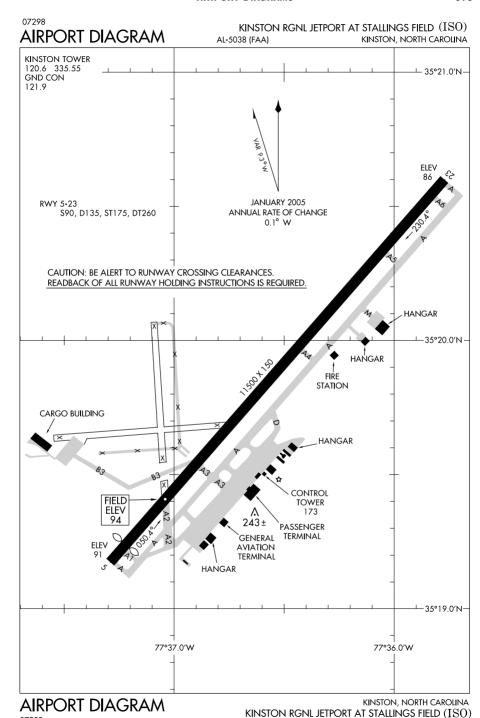




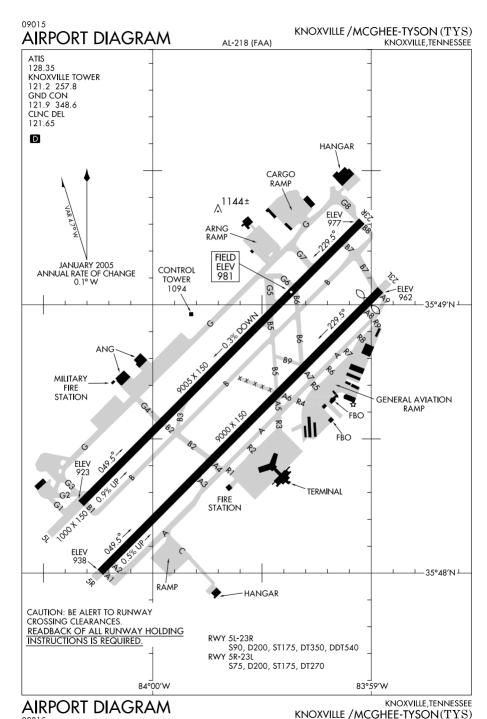
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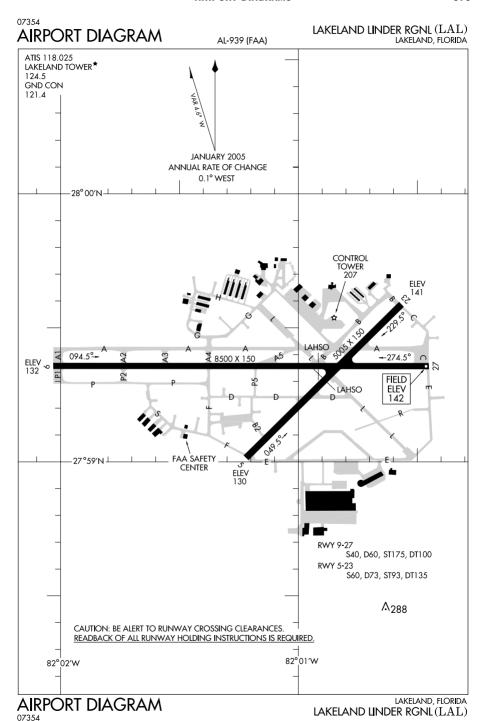
KEY WEST, FLORIDA KEY WEST INTL(EYW)

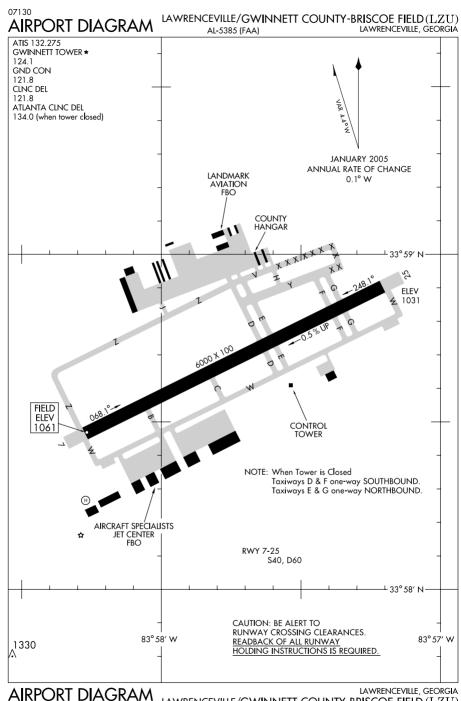




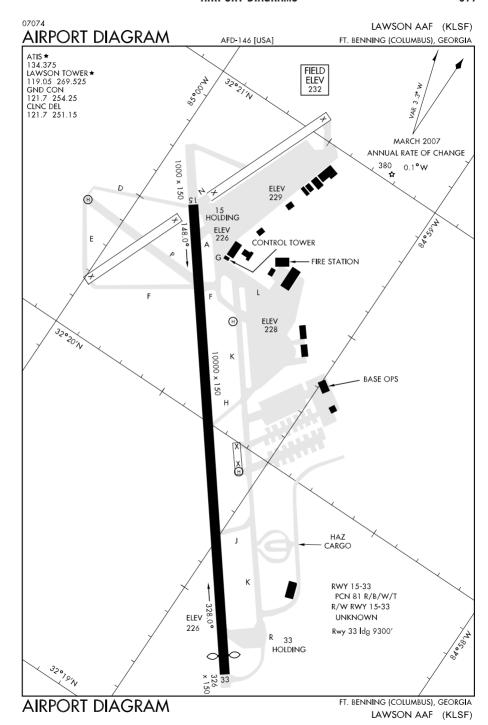
07298



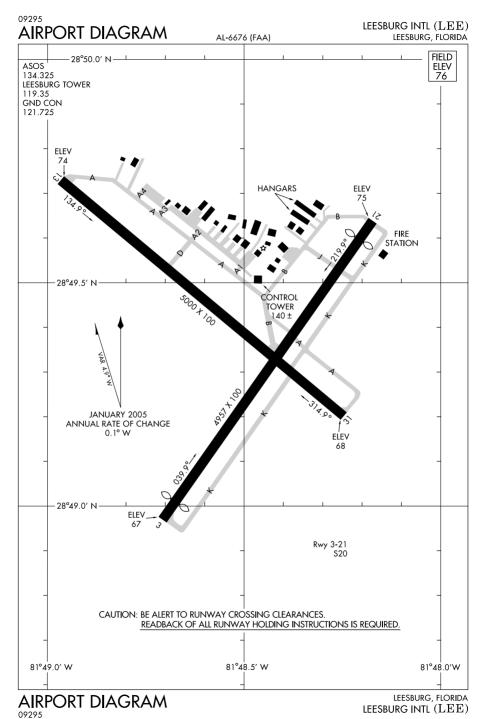


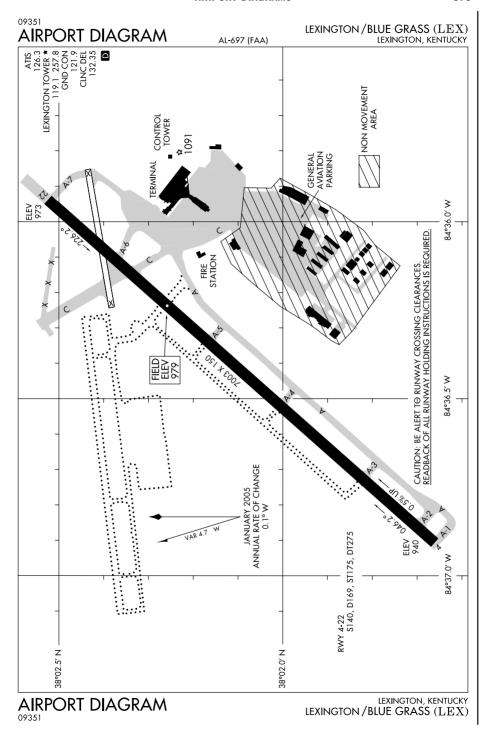


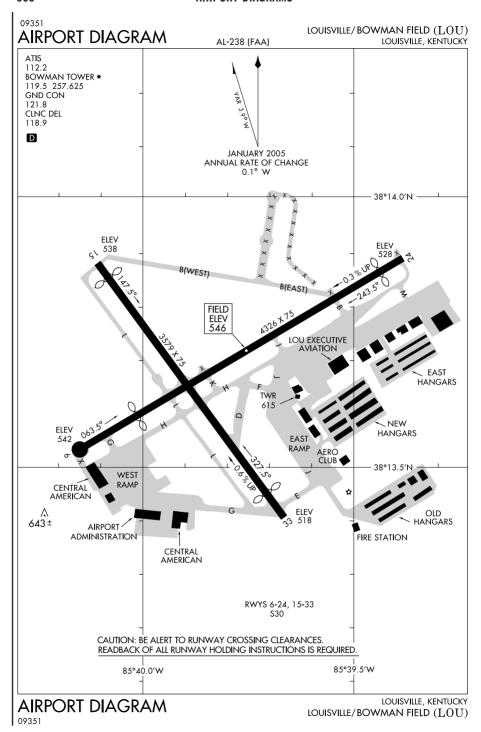
LAWRENCEVILLE/GWINNETT COUNTY-BRISCOE FIELD (LZU)



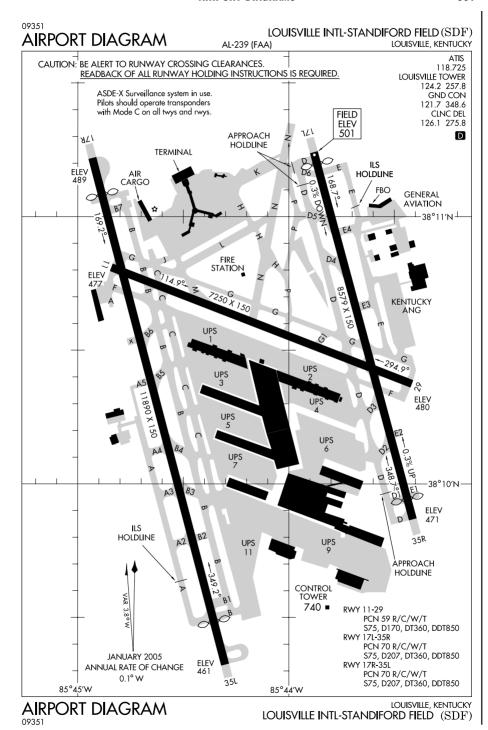
SE, 17 DEC 2009 to 11 FEB 2010

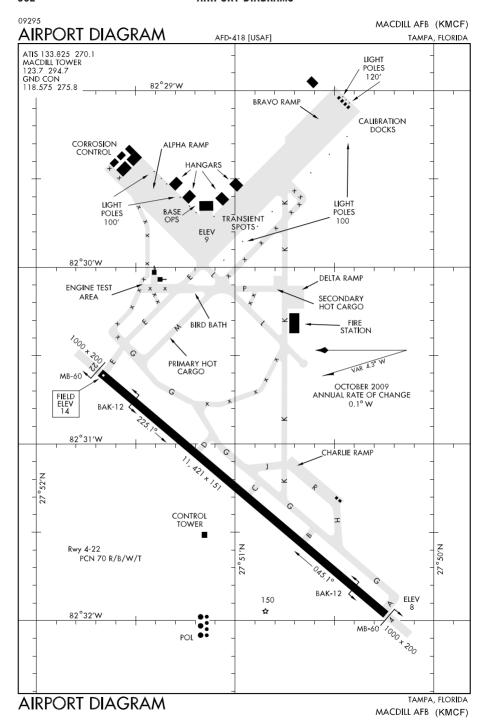


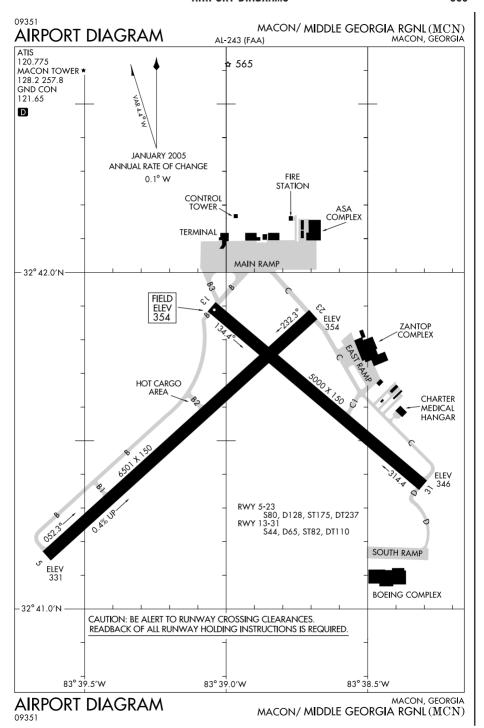


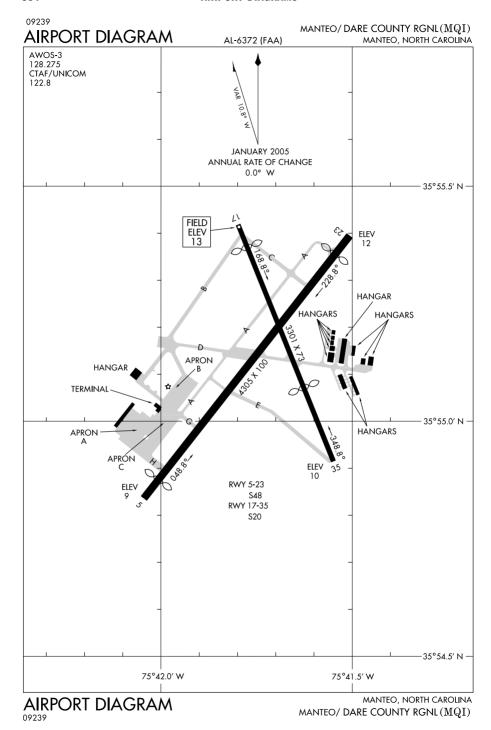


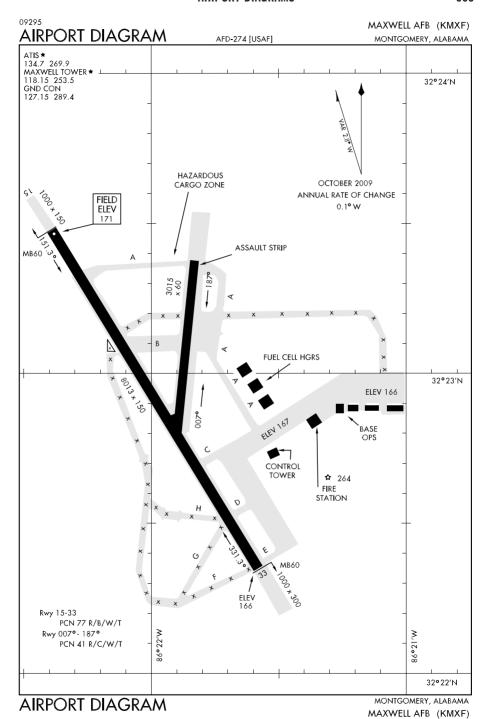
SE, 17 DEC 2009 to 11 FEB 2010

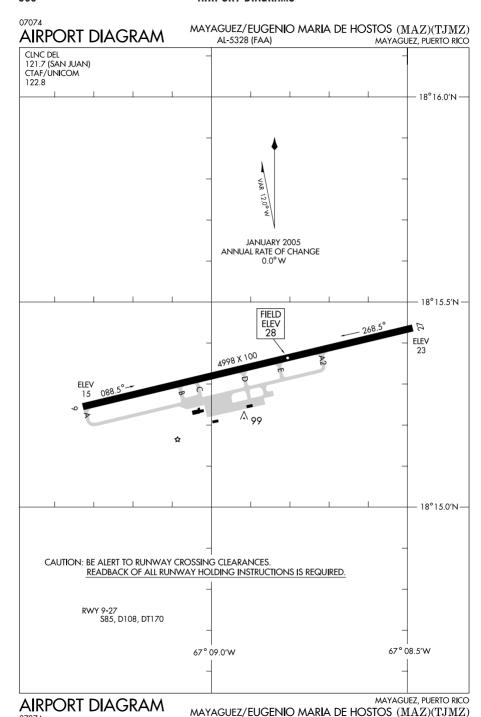




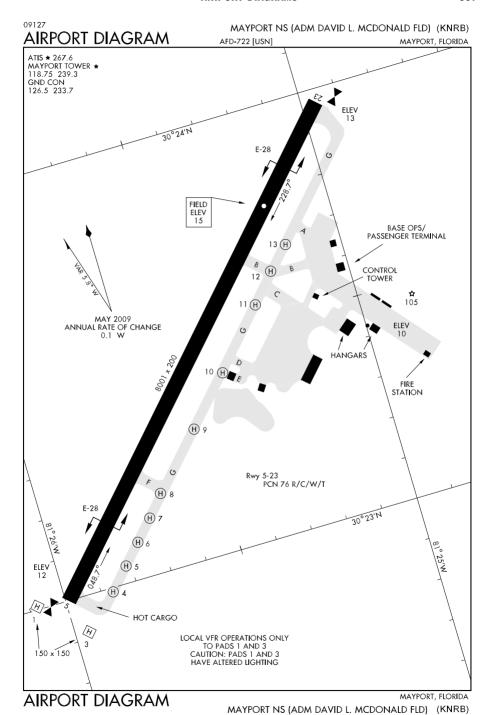


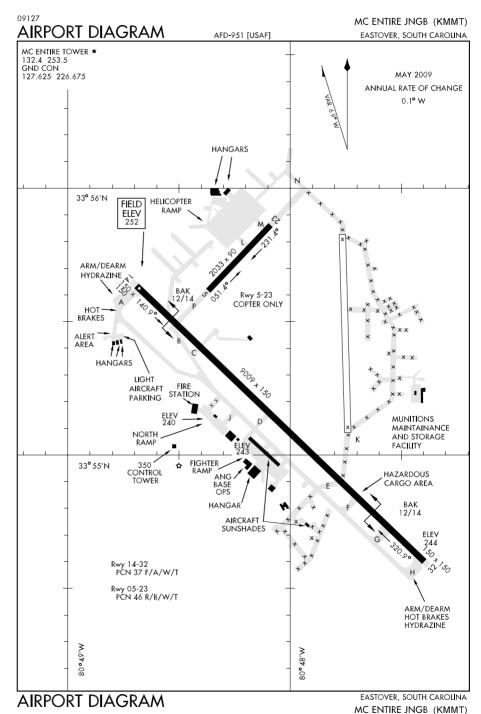


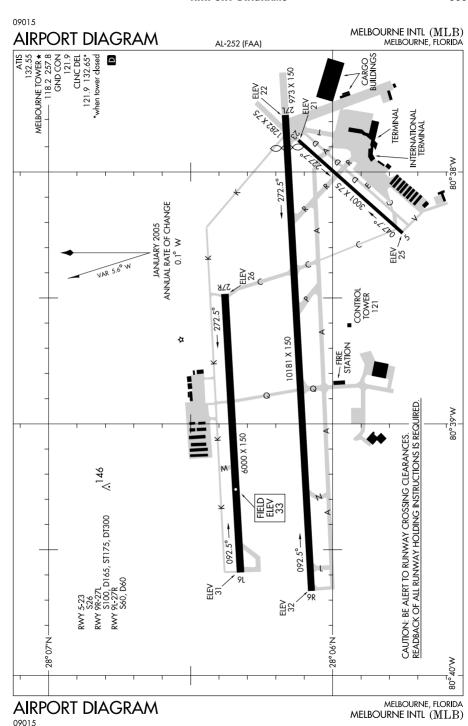




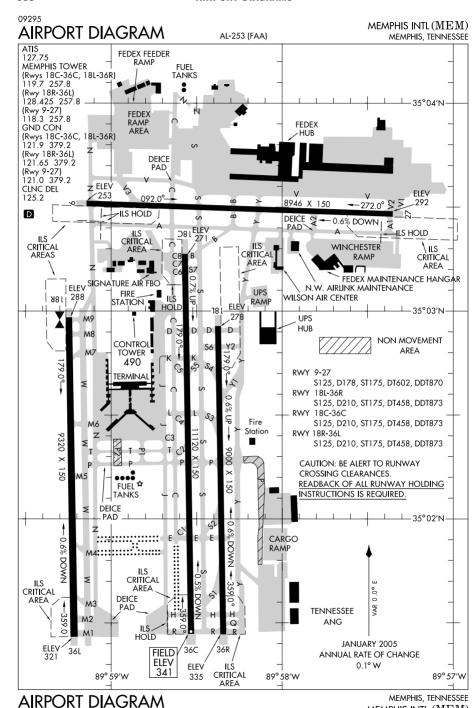
SE, 17 DEC 2009 to 11 FEB 2010



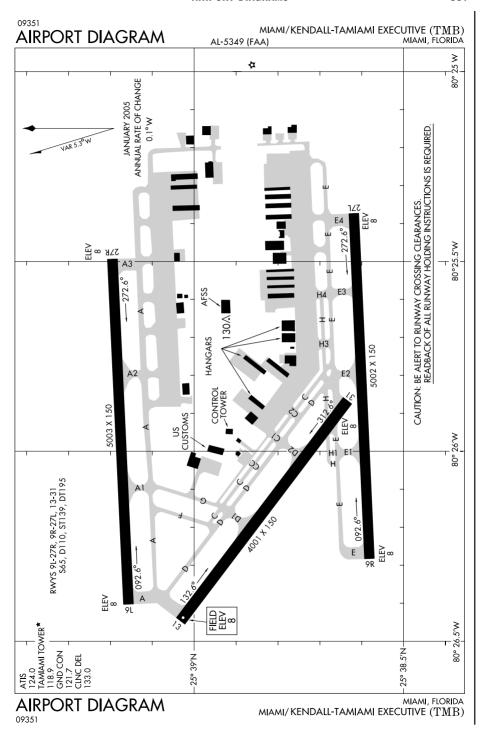




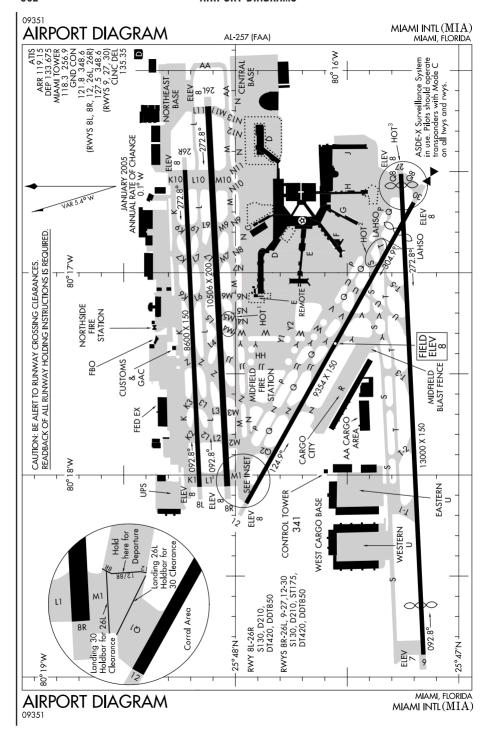
09295



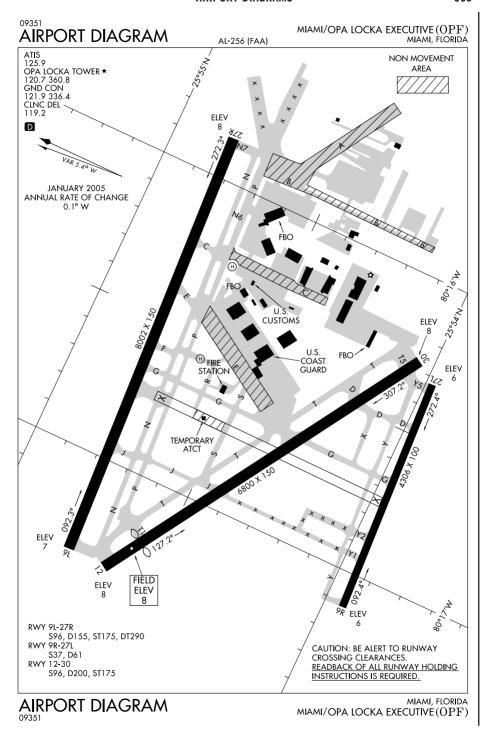
MEMPHIS INTL (MEM)

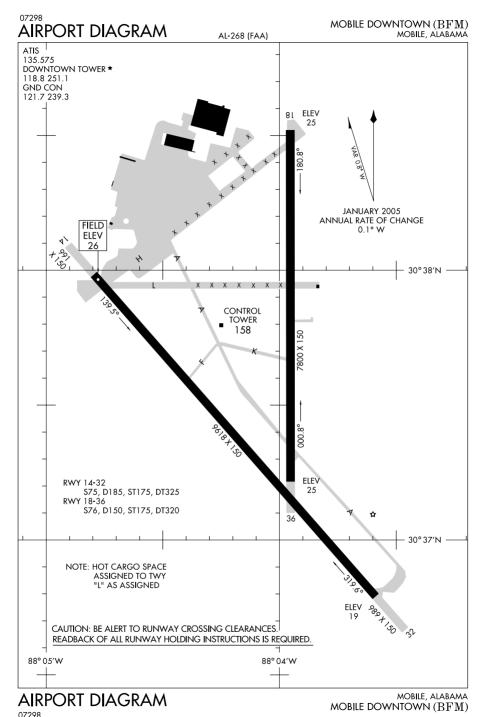


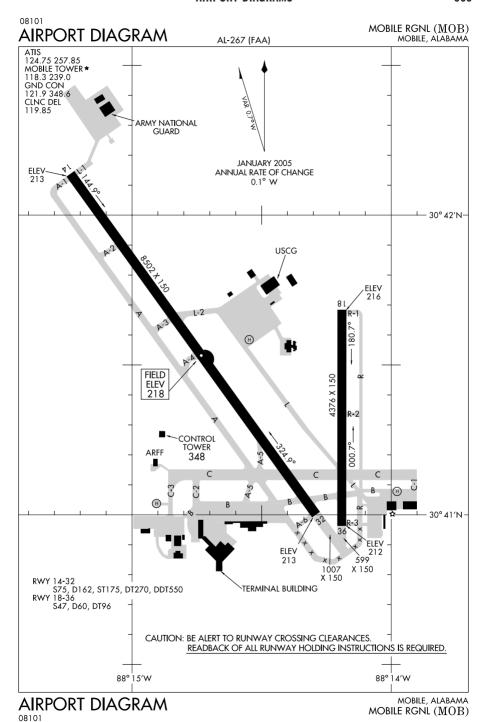
SE, 17 DEC 2009 to 11 FEB 2010

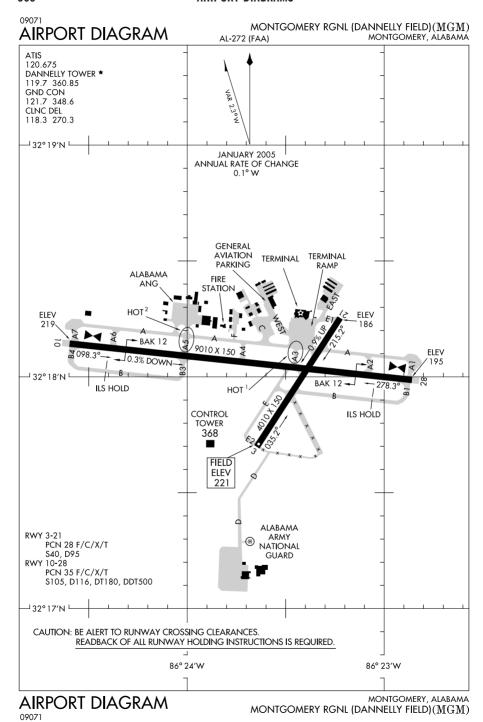


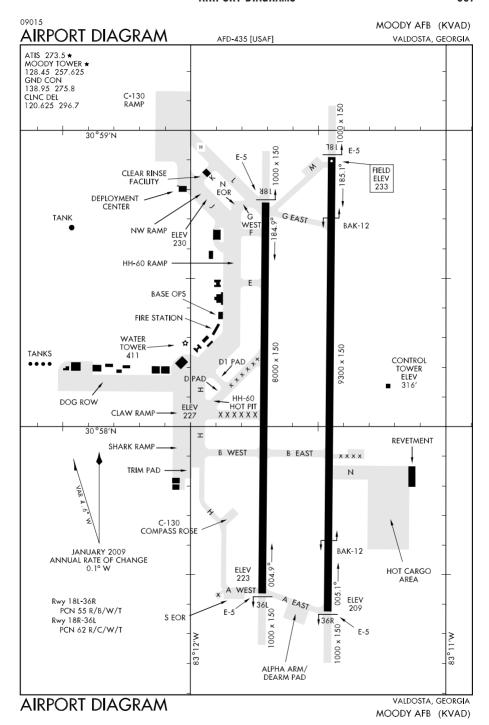
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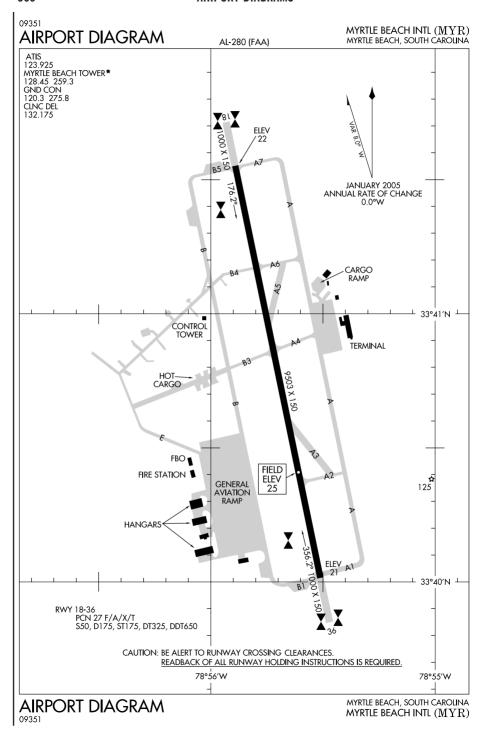




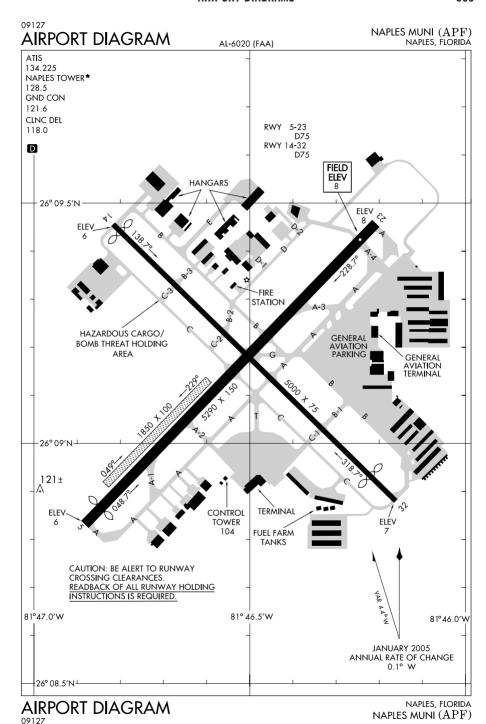


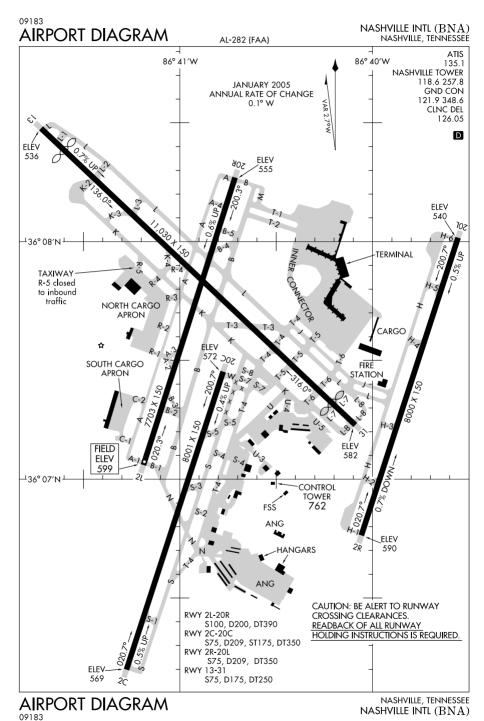






SE, 17 DEC 2009 to 11 FEB 2010

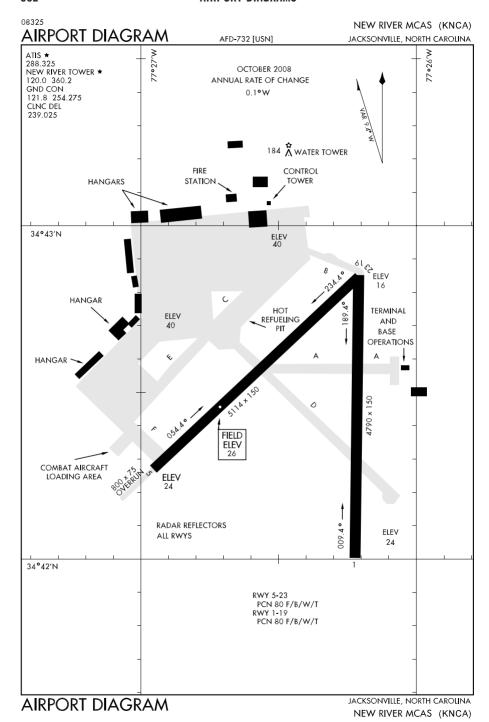


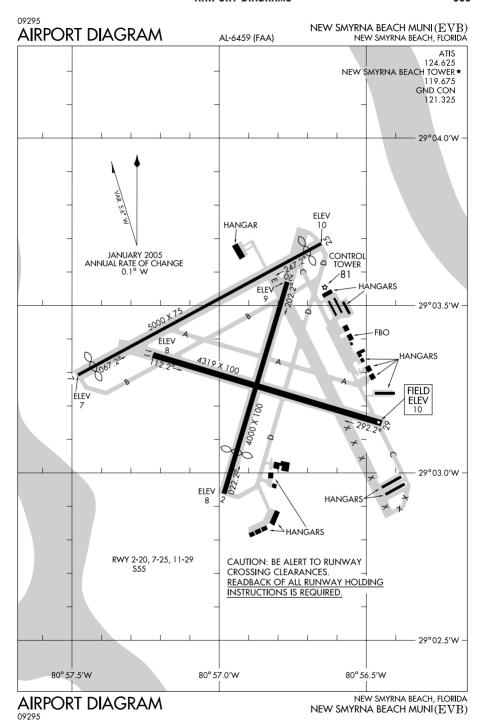


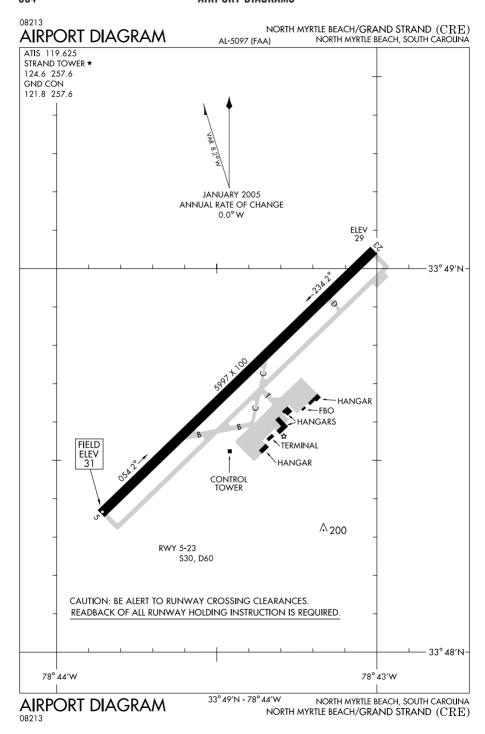
09183 NEW BERN/COASTAL CAROLINA RGNL (EWN) AIRPORT DIAGRAM NEW BERN, NORTH CAROLINA AL-670 (FAA) ASOS CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES. 118 525 READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED. NEW BERN TOWER★ 124.25 35°05′N **GND CON** 121.7 CLNC DEL 121.7 HANGARS FIRE **ELEV** STATION **HANGARS** GENERAL ELEV VIATION TERMINAL FIRE STATION CONTROL TOWER AIR CARGO FED EX FIELD **ELEV** 19 35°04′N ELEV RWY 4-22 S30, D62, DT140 RWY 14-32 S28, D45 JANUARY 2005 ANNUAL RATE OF CHANGE 0.0° W 77°03′W 77°02′W

AIRPORT DIAGRAM

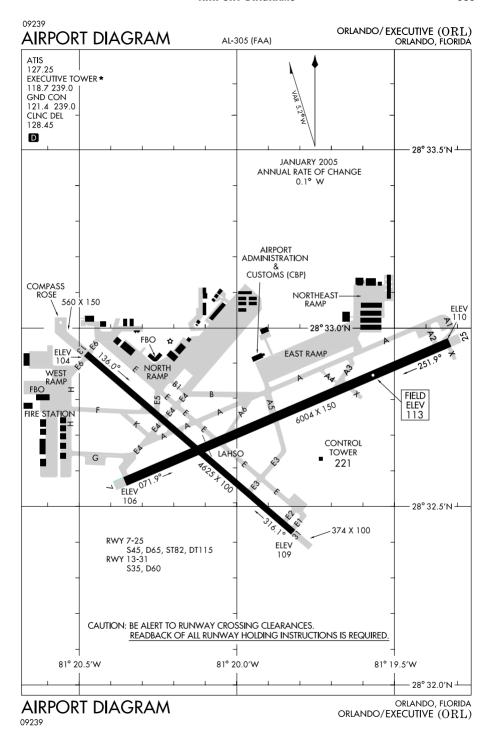
NEW BERN/COASTAL CAROLINA RGNL (EWN)

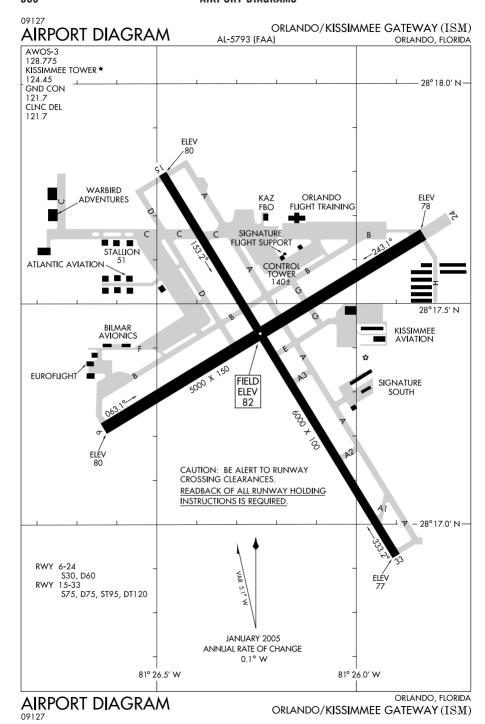




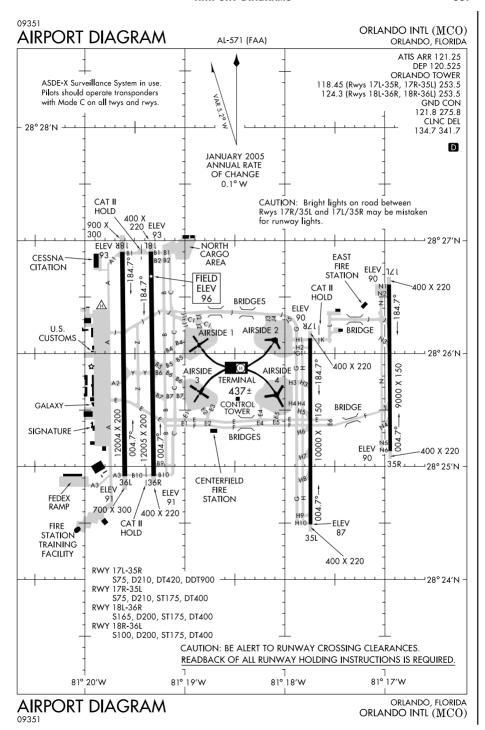


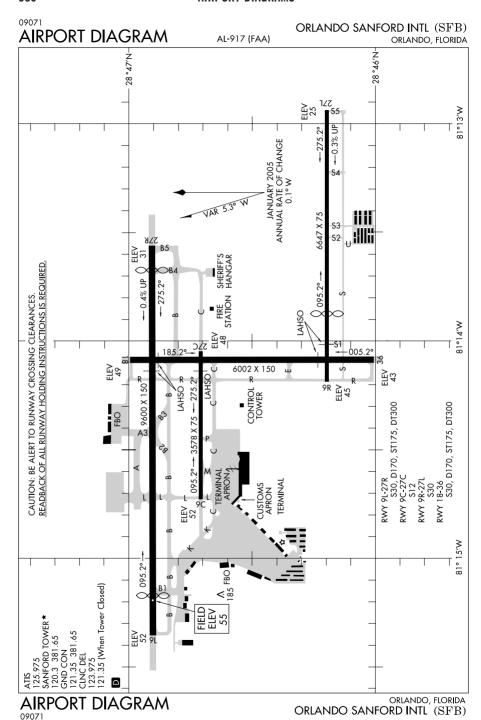
SE, 17 DEC 2009 to 11 FEB 2010

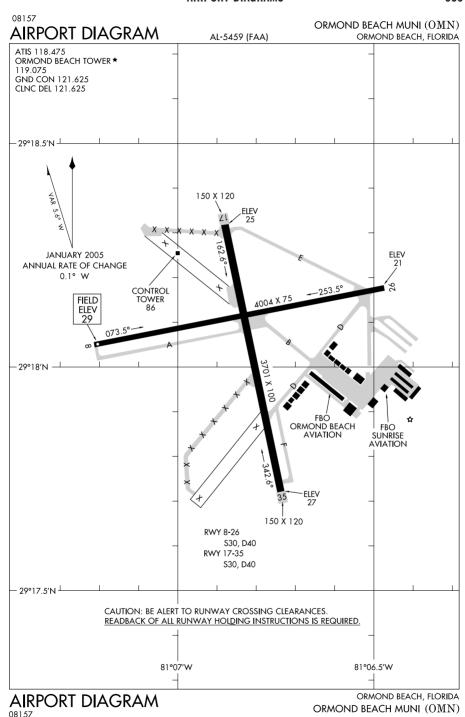


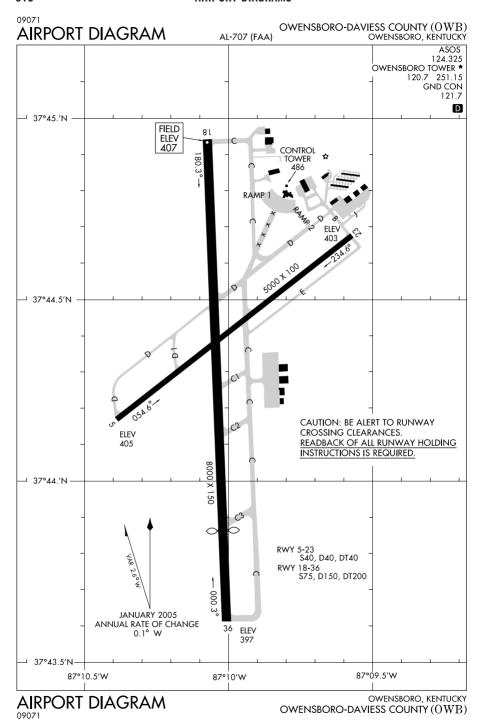


SE, 17 DEC 2009 to 11 FEB 2010

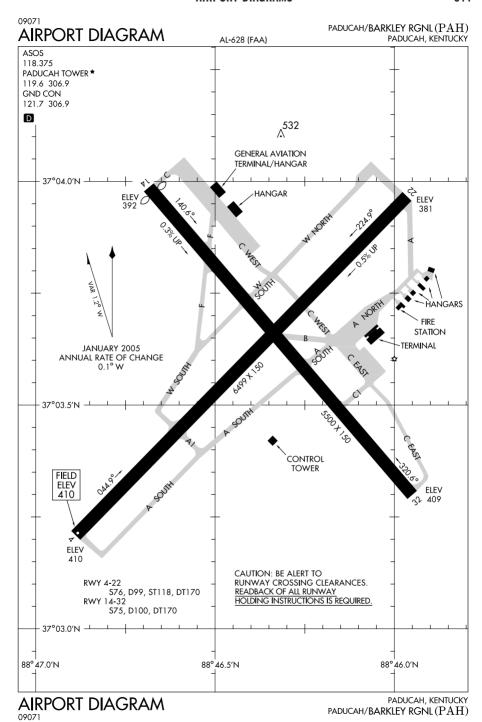


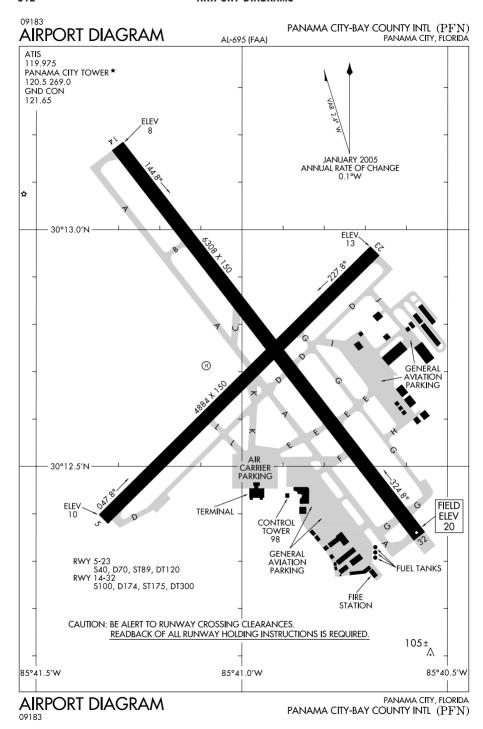




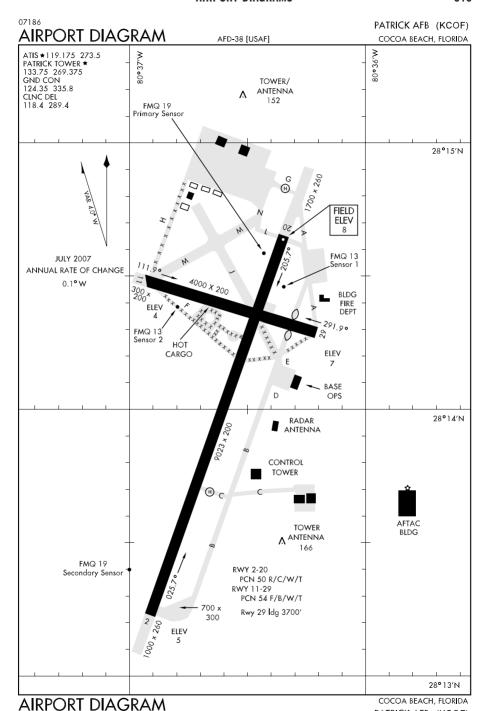


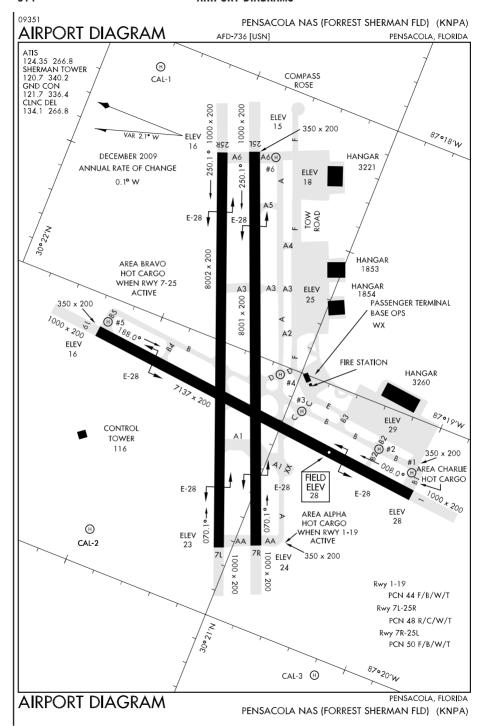
SE, 17 DEC 2009 to 11 FEB 2010



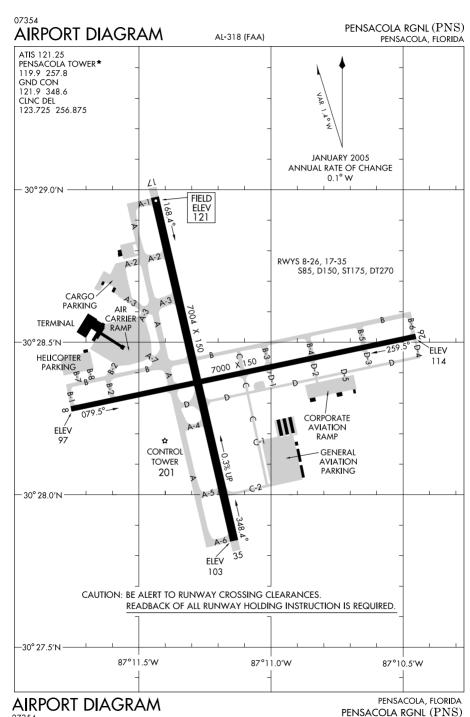


PATRICK AFB (KCOF)

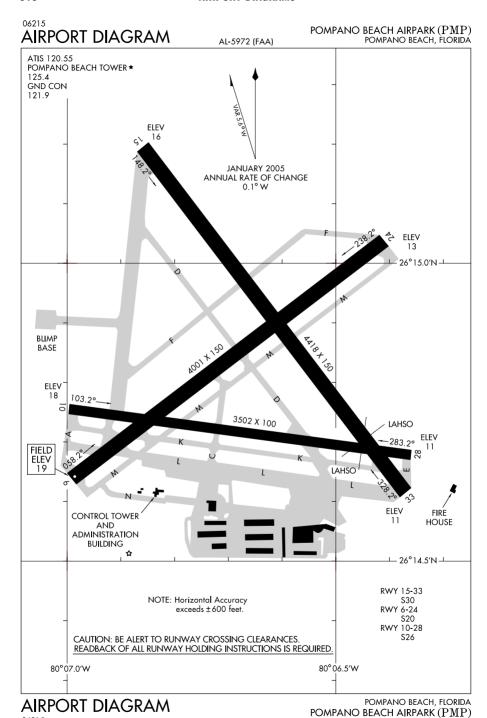


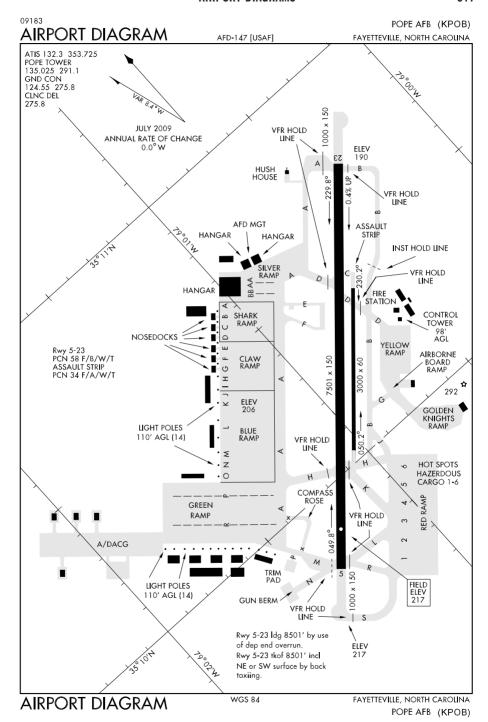


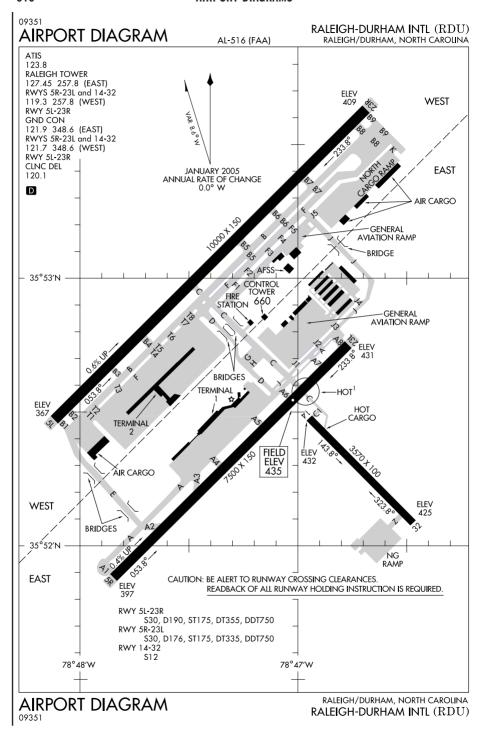
SE, 17 DEC 2009 to 11 FEB 2010



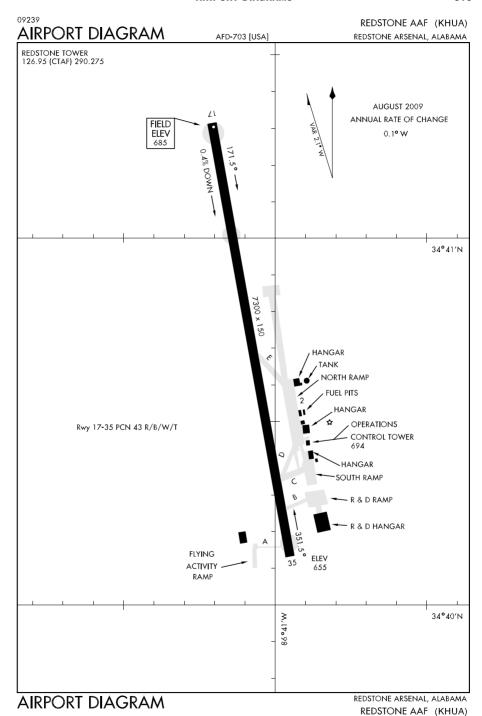
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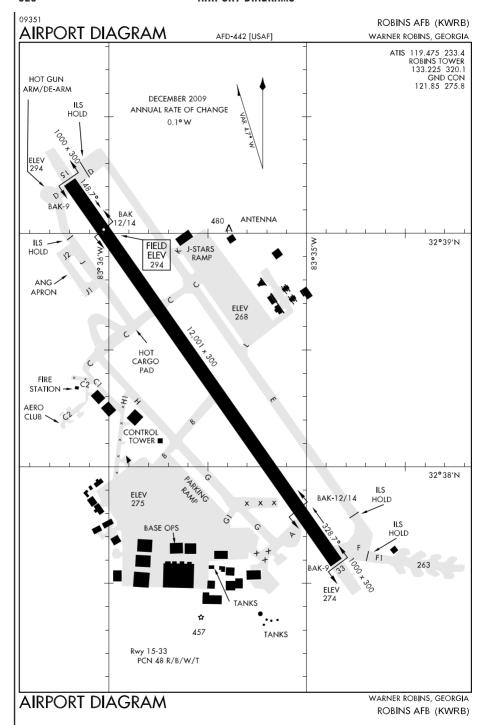




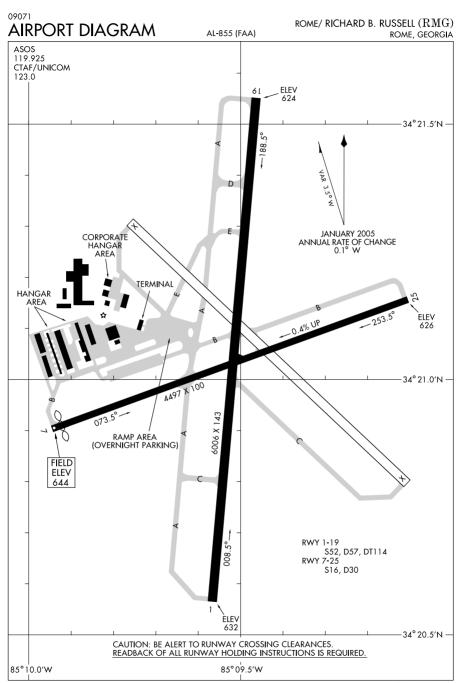


SE, 17 DEC 2009 to 11 FEB 2010

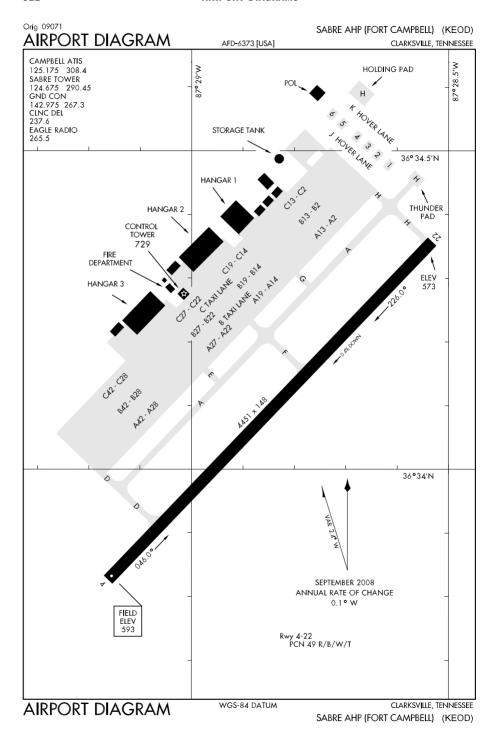




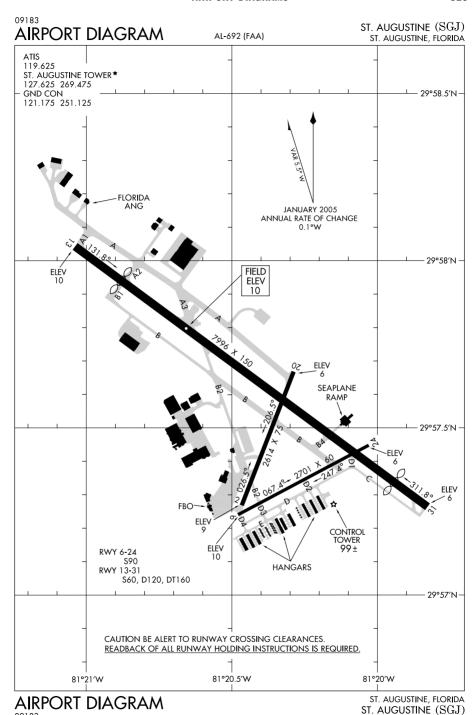
SE, 17 DEC 2009 to 11 FEB 2010

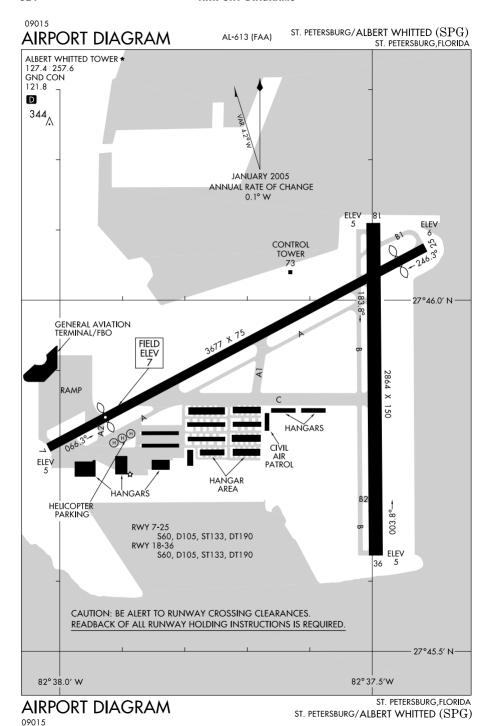


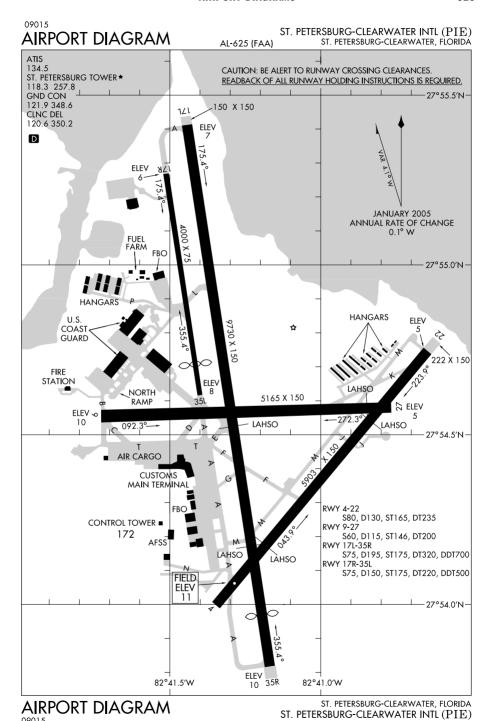
 $\begin{array}{c} \text{ROME, GEORGIA} \\ \text{ROME/ RICHARD B. RUSSELL } (RMG) \end{array}$

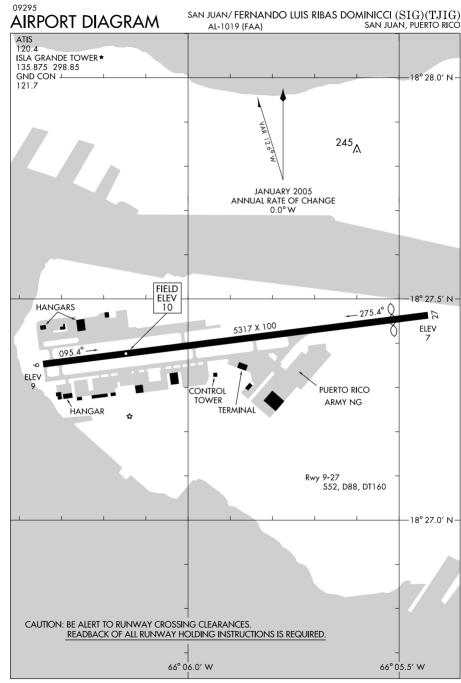


SE, 17 DEC 2009 to 11 FEB 2010

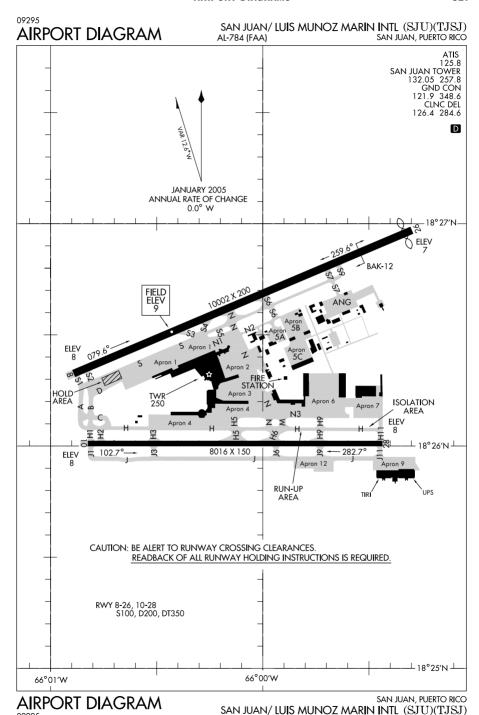


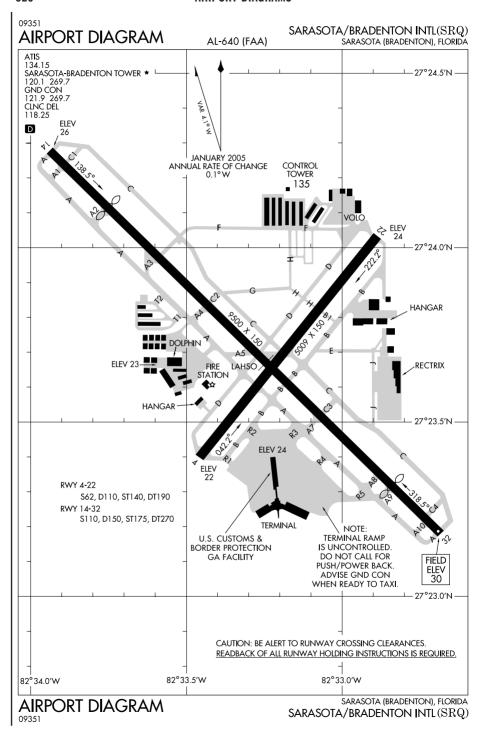




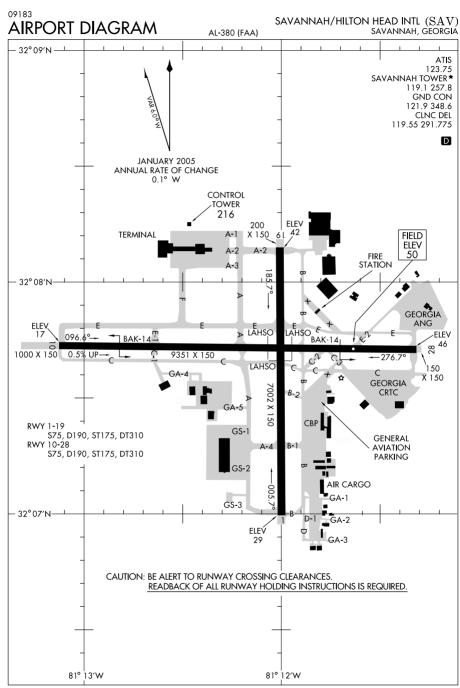


SAN JUAN, PUERTO RICO SAN JUAN, FERNANDO LUIS RIBAS DOMINICCI (SIG)(TJIG)

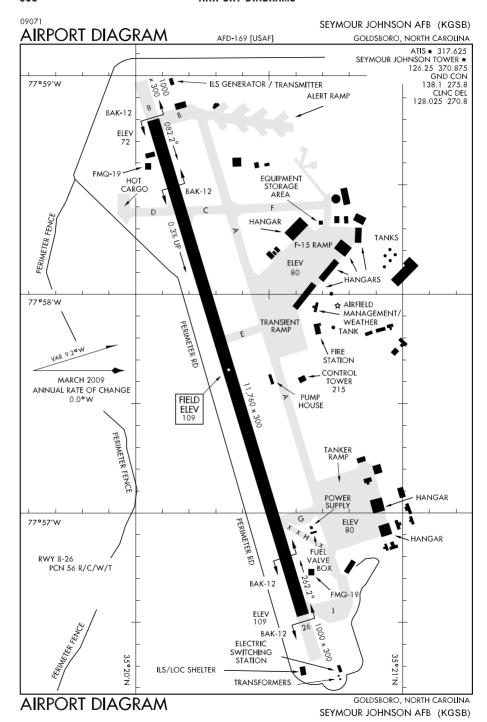




SE, 17 DEC 2009 to 11 FEB 2010

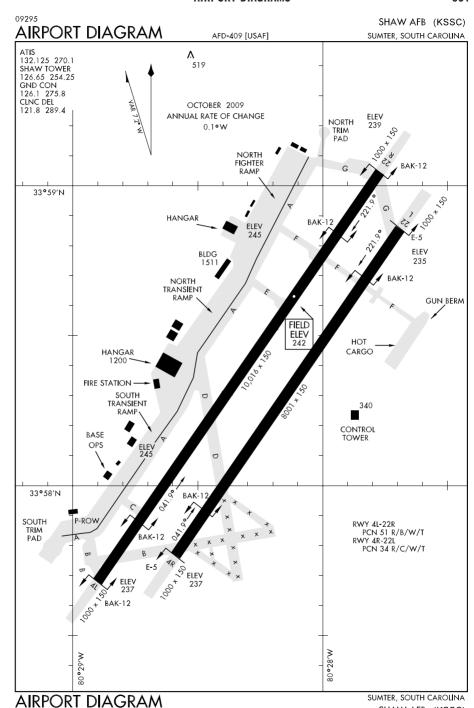


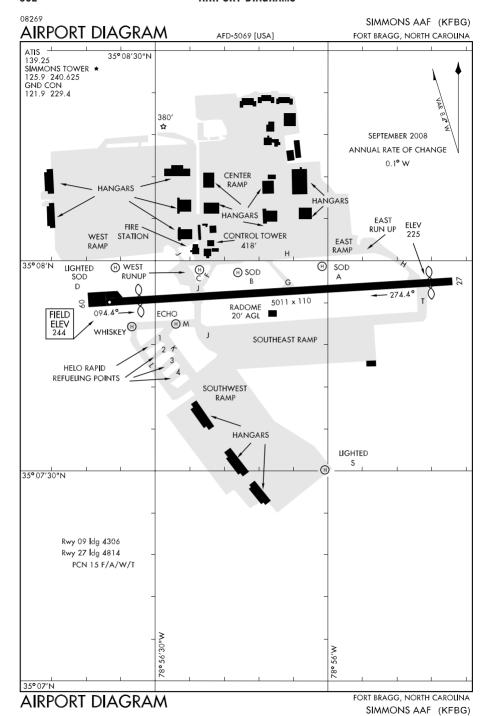
SAVANNAH, GEORGIA SAVANNAH/HILTON HEAD INTL (SAV)



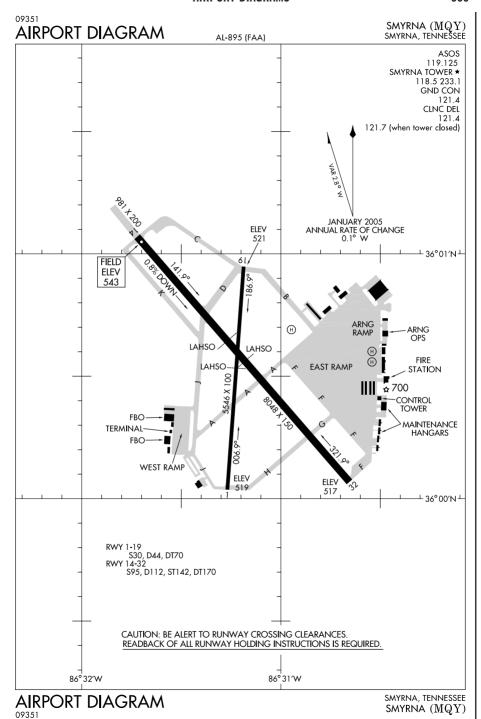
SE, 17 DEC 2009 to 11 FEB 2010

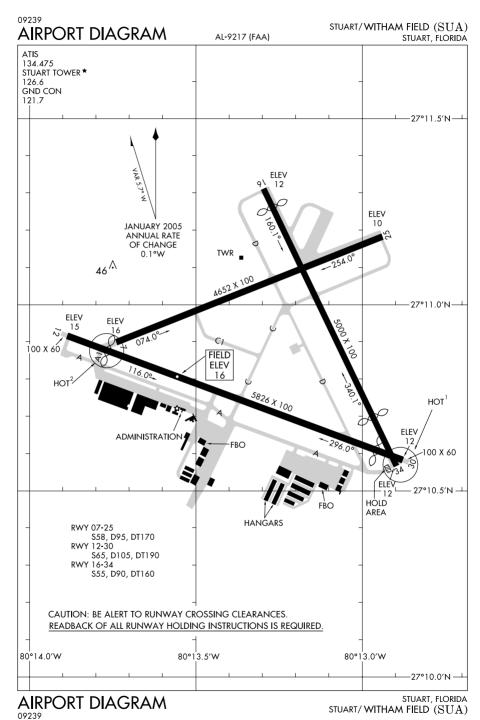
SHAW AFB (KSSC)

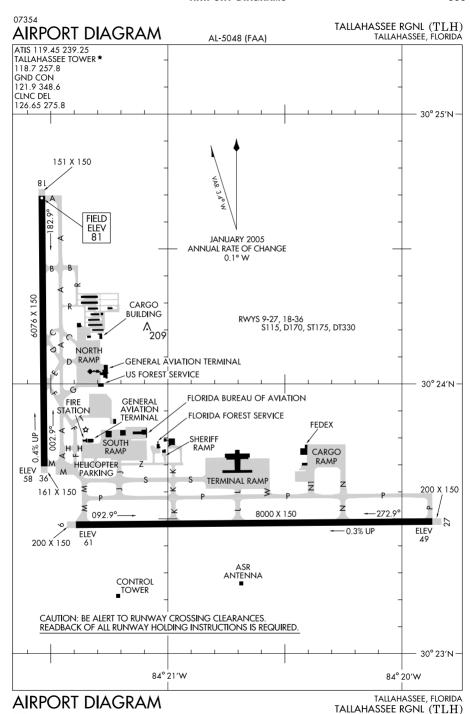




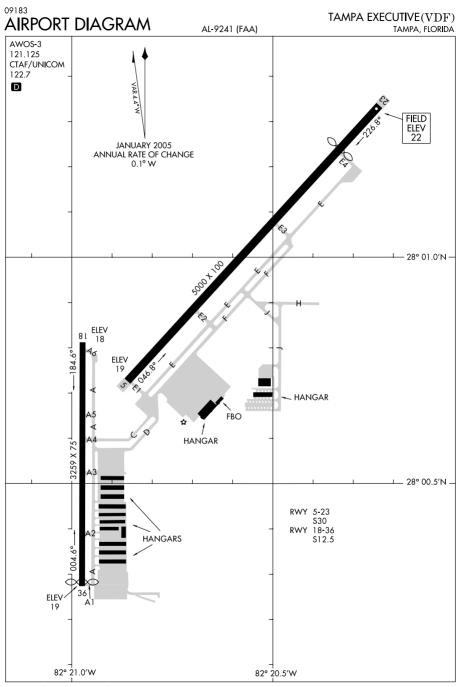
SE, 17 DEC 2009 to 11 FEB 2010



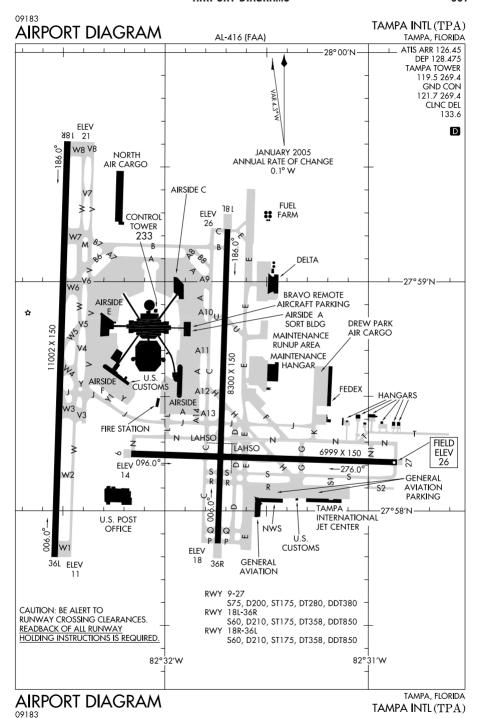


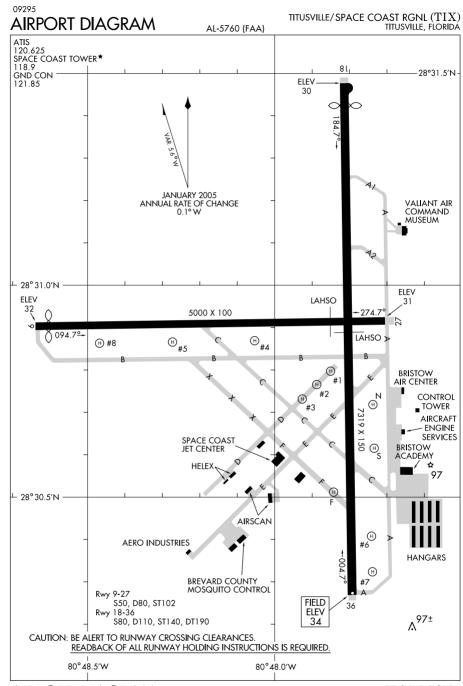


07354

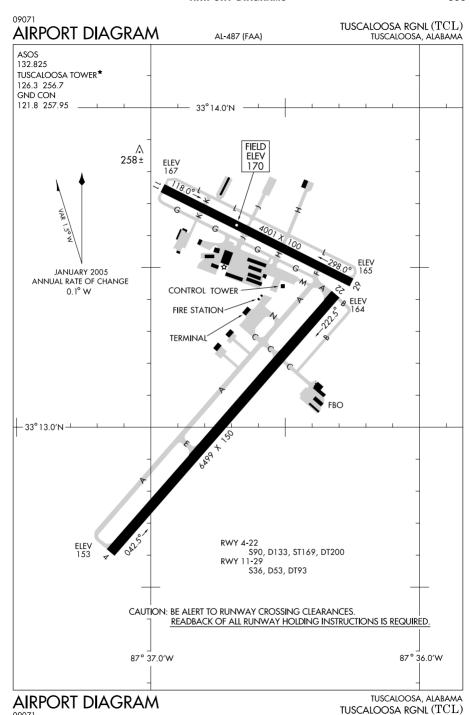


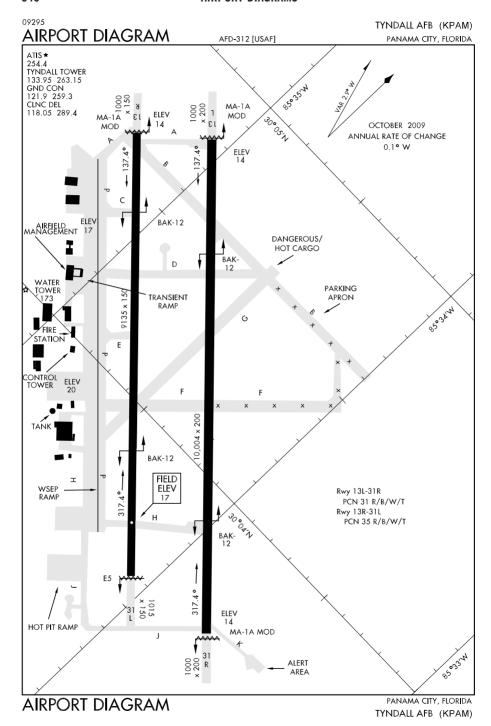
TAMPA EXECUTIVE (VDF) TAMPA, FLORIDA

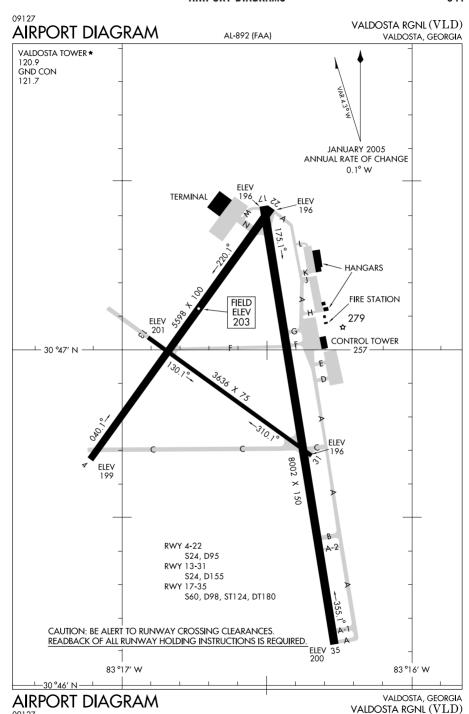




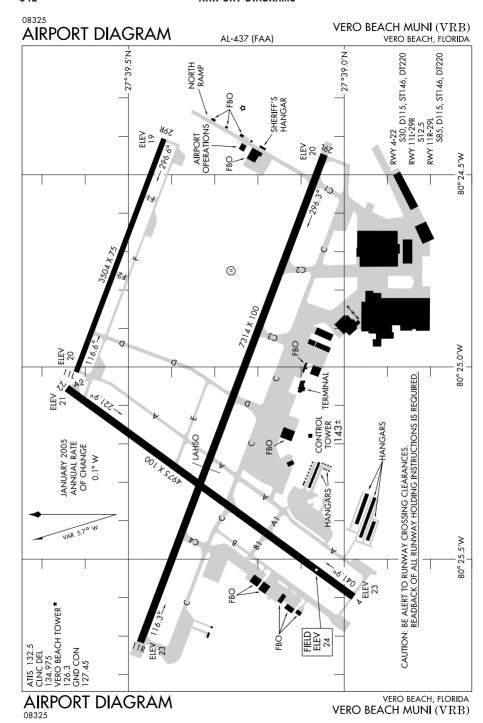
 $\label{eq:titusville} \begin{tabular}{ll} TITUSVILLE, FLORIDA \\ TITUSVILLE/ SPACE COAST RGNL (TIX) \\ \end{tabular}$



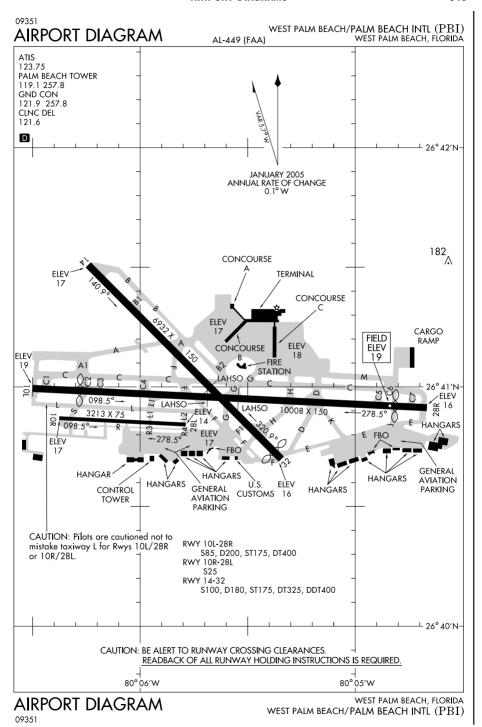


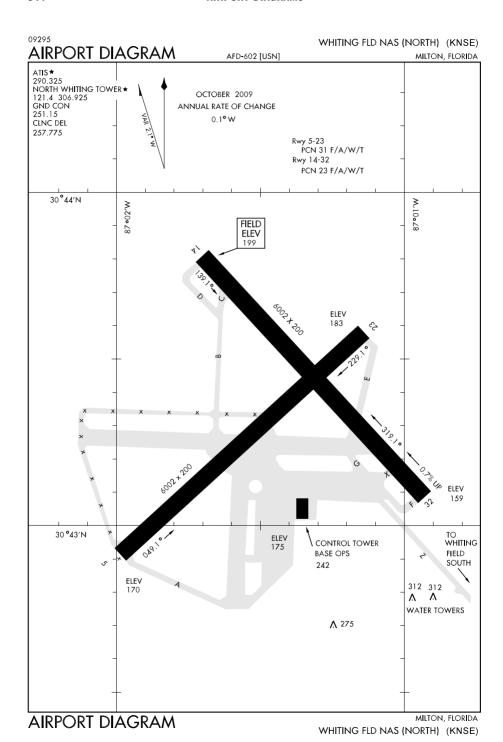


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